A. D. W. – Senior Software Engineer 232241

PROFESSIONAL BACKGROUND

4/2021 – 2/2023   IT research & software development (Contractor) | Senior Software Engineer

❖ Documentation management software development – full stack
- Frontend development (Angular 12, AngularJS, JavaScript, Django, HTML)
- Backend development (Python (2-3-4) with Celery (batch engine), Django, MySQL)
- DevOPs tasks (Jenkins legacy and pipeline setup, maintenance, Gerrit and Git management)

8/2020 – 3/2021   IT Services and IT Consulting | Lead Software Engineer

❖ Angular Subscriber System (backend) design and development – full stack
❖ Frontend design (Angular 11 with Angular Material)
❖ Material Theming (custom switchable dark/light color palettes with mobile/desktop responsive layout)
❖ Sass CLI scss component styles (mixin)
❖ Customizable generic (Material) table components with per column filtering/sorting/display and paging
❖ Using Angular Dynamic Forms (with in memory Mocked services) for backend communications
❖ Comprehensive Material Autocomplete solution for searching/filtering asynchronously in backend DB (JSON data)

3/2020 – 8/2020   IT Services and IT Consulting | Lead DevOps Engineer

❖ Continuous Integration/Delivery (CI/CD) framework design and development
❖ Introducing Distributed version control (git with git Central)
❖ Test server (Ubuntu VM) install - with git central (bare), git ssh konfig per user
❖ Jenkins install for CI/CD projects with:
- git push (post receive) hook config for Jenkins stage start
- git pre-receive hook config for push authorization
- Fortify install and plugin config for Jenkins CI projects
- Selenium installs for Jenkins UI tests
- JavaScript based UI test env introduction with samples (Mocha/Chai)
- UI test development (Mocha)
- UAT and Prod server envs installation (corresponding Jenkins stages for auto deploy)

❖ DB (MysqI) setup

1/2020 – 3/2020 IT Services and IT Consulting | Lead Software Designer / Architect

- ❖ Angular Webshop Pilot project– full stack
- ❖ Frontend design (Angular 9 with Angular Material)
- ❖ Middleware (express.js)
- ❖ DB (Mysql)

9/2019 – 12/2019 IT Services and IT Consulting (Airline) | Senior Software Developer / Architect

- ❖ Alpine intranet development – full stack
- ❖ Frontend design (Angular 8 with Angular Material)
- ❖ Middleware (.Net Core 2.2)
- ❖ DB (MS-Sql)

9/2018 – 9/2019 Information Technology & Services | Lead Software Developer

- ❖ Social services applications development – full stack
- ❖ DB component design (Flyway@Oracle11-12 SQL-PL/SQL)
- ❖ Frontend (XHTML, JSF)
- ❖ Backend (JSF backing beans, Wildfly 7-11, Java EE 8)
- ❖ Deployment support for Wildfly
- ❖ Redmine Task creation from user stories and requirement specs
- ❖ JMS based batch job processing system design and implementation
- ❖ Introducing Agile development system

9/2018 – 5/2019 IT Services and IT Consulting (Banking) | Senior Software Developer

- ❖ Banking software development – full stack
- ❖ DB component design (Liquibase, Oracle SQL-PL/SQL)
- ❖ Frontend (JSON, ExtJs, JavaScript, jquery, html, Css for IE11, Chrome and Firefox specific corrections)
- ❖ Backend (Spring Microservices, Tomcat 7, Java EE 7 on Glassfish)
- ❖ Deployment support for Glassfish (Bash scripting)
- ❖ debugging for performance issues

1/2018 – 6/2018 IT Services and IT Consulting (Banking) | Senior Software Engineer

- ❖ Banking software development – full stack
  - • DB component design (Oracle SQL-PL/SQL)
  - • Frontend (JavaScript, jquery, html, Css)
  - • Backend (Struts, Tiles, Jsp and Java EE 7 on WebSphere)
  - • Ant build support (with Python scripting)
  - • debugging
- ❖ Social insurance-based software for Switzerland Bank – full stack

- DB component design (DB2 SQL)
- Backend (JSF, Facelet, Xhtml, and Java EE 7 on WebSphere)
- debugging

8/2017 – 10/2017   IT Services and IT Consulting (Banking) | Software Engineer

- Bank software services – middleware and frontend
- Developing database components (Oracle)
- Home banking frontend (Javascript, jquery, html)
- Home banking backend (Struts, tiles, jsp and Java EE 6 on Weblogic)
- Change management documentation

11/2016 – 6/2017   IT Services and IT Consulting (Banking) | Software Engineer

- Bank software services - development and support
- Developing PL/SQL business logics
- Creating business intelligence scripts in Groovy
- Banking software systems (log analysis, deployment, operation and back-office support)
- Creating DB patches for support and development tasks (Oracle 11g)
- Developing modifications and bug fixing in Delphi (legacy) systems
- Developing Spring fw (STS) based middleware apps (Java 7)
- Managing distributed systems (WSDL-based bug fixing, dev. for remote systems accesses)

6/2014 – 7/2016   Banknote Printing Shareholding Company | Lead Development Engineer

- Novel Distributed Financial Clearing and Voucher processing system, with a host of equivalent, object-oriented message processing, lightweight micro servers, for maximum flexibility in transaction processing, load balancing, responsiveness (principles design/development/verification)
- Oracle 12 Database design/administration and binding with Hibernate Persistence Unit (Java SE-Netbeans)
- Persistence (Hibernate/Eclipselink) Java SE Entity model design and development, with Optimistic locking policy implementation
- Transaction and Program management micro servers in safe backend locations, using socket-based communication and Persistence links
- Transaction processing solution (novel balanced client/server design, concentrating on minimal software footprint for embedded (POS), desktop, server usability and low garbage collector load) – Java SE
- HTTPS (TLS 1.2) Web server in DMZ, with admin functions, using Java SE HttpServer, JSoup, CSSBox, JAXB, Javascript, HTML5, without the need of Java EE or any other heavyweight SW framework
- HTML 5 UIs with form-based sessions
- Software management (Version Control HTTP server for GIT, with GIT Extensions clients) administrator and designer

❖ Modified Ant build for Java Web Start (JNLP) deployment and easy runnability

6/2013 – 9/2013   **Electronics for IoT and consumer electronics | Software Development Engineer**

❖ MOST based (fiberglass) application development (embedded C)
❖ USB MSD application development (embedded C) (diagnostics module)

1/2012 – 6/2013   **IT research & software development | Software Dev. Engineer (Consultant)**

❖ Java EE6 development (2 layered application, resource management)

- Glassfish (3.1.1)
- GWT(Gui)
- Eclipse (Indigo)
- Maven
- Git
- Solaris OS
- Selenium AT env
- Jenkins continuous build system
- JIRA
- TestNG

❖ JCA 1.6 connector development (in/outbound)

- Corba
- JMS
- CLI
- File

9/2010 – 23/2011   **Assistant Professor**

❖ Same as earlier, plus Software Development Process (Unified Process) education

9/2007 – 9/2010   **Lecturer**

❖ Microsoft VC++ based OOP education (2-tier applications development)
❖ Oracle Java based OOP education (Java SE (incl. basics and graphics) and EE 5-6: 3-tier applications development)
❖ Embedded systems lab and exercise (focusing mobile communications)2006-

2006   **Hardware and Software Engineer, Project and Company Leader**

❖ Actuator prototype – hardware design

- Hardware design (Solidworks CAD)
- modeling (Ansys Multiphysics FEM: Magnetostatic-CFD-Rigid Dynamics)
- prototyping (assembly, diagnostics, tuning and testing)

❖ Actuator prototype - application design and development

- System design (UML component, collaboration and class diagrams)
- Communication protocol (reflex like communication between PC host and embedded motor control application, over USB bulk protocol)
- Diagnostic host and external API (Visual C++ 2012 – ISO C++ /STL/ dll's, MFC and Win32 for appcompat)
- Device Firmware (embedded - TI RTOS (Cortex M3/ Concerto-based) C motor and sensor control application – BLDC-like sensor driven driving for a lot of synchronized PWM channels)

2002 – 2005   Telecommunications | Software Engineer

- ❖ Customer Care software package (JAZZ) verification
- ❖ A Rational Unified Software Engineering model: verification layer development (SQABasic)
- ❖ M-Commerce monthly billing software development, implementation and support
- ❖ Business Model implementation into UML (Rational Rose)
- ❖ Programming of software modules, based on UML design (C++/Tru64-Unix)
- ❖ Database interface design and implementation (Oracle ProC / Oracle SQL)
- ❖ Software verification (Unix shell scripts)
- ❖ Monthly Bill image design and development
- ❖ Dialogue Exstream document builder software adaptation to T-Mobile IT structure (Dialogue Manager and XML)
- ❖ Bill image development (Dialogue Designer)
- ❖ Oracle version change (8.x->9.x) coordination
- ❖ Site survey, task coordination, performance monitoring

2000 – 2002   Telecommunications | Software Development Engineer

- ❖ ClearCase admin
- ❖ Call control design pilot project for 3. Generation All IP core networks
- ❖ Specification (Together UML)
- ❖ Call control module verification software development
- ❖ Software development (C/SDL)

COMPETENCIES

Operating systems:

- ❖ Microsoft Windows (95, NT, 2000, XP,Vista, 7, 8, 10)
- ❖ UNIX (HP-Unix, Tru64, Digital)
- ❖ Linux (Red Hat, SuSe)
- ❖ VAX/WMS

Programming languages, databases, IDEs, app servers:

- ❖ Microsoft Visual Studio (Visual C/C++-MFC, Win32API, Visual Basic, TFS, Modeling,
- ❖ CLR, Driver Dll (DDK), MSSQL Express)
- ❖ Oracle Java Platform Enterprise Edition (J2EE, Java EE 5-7, Persistence Java SE 6-8, Java3D, Hibernate/Eclipselink, Jsoup (HTML5), JAXB (XML), CSSBox (CSS), Apache
- ❖ POI (XLS), JNLP, JCA 1.6, JMS, REST, Webservices)
- ❖ Eclipse IDE (Beans [EJB, JavaBeans], Glassfish, Jboss,W)
- ❖ Netbeans IDE 6.0-8.0 (Swing, AWT, Beans [EJB, JavaBeans], Glassfish)
- ❖ Microchip MPLAB (MCC18 C, USB programming)

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- ❖ Texas Intsruments Code Composer Studio (USB, DSP-ARM, PCM/PWM programming)
- ❖ XML, PHP, HTML5, DHTML, JavaScript, Ajax (XHTML, DOM, DOJO)
- ❖ Oracle SQL, PostgreSQL, MySQL, MSSQL, ProC
- ❖ Microsoft IIS (PHP), Glassfish, Jboss-Wildfly, Tomcat, Weblogic, Websphere
- ❖ Dialogue Exstream (document generation)
- ❖ Borland IDE (Builder C++/C, Delphi)
- ❖ Unix shell script (Ksh, Bash, Csh)
- ❖ Doxygen (documentation)
- ❖ Rational Unified Process (RoseUML, ClearQuest, ClearCase, SQABasic)
- ❖ USB 2.0 Framework, USB MSD/HID Class Framework (descriptors, design)
- ❖ SIP, HTTP
- ❖ Google Web Toolkit
- ❖ Maven build system
- ❖ Ant build system
- ❖ Git versioning system
- ❖ Agile (Scrum, Kanban, JIRA, Jenkins, TestNG, JUnit, Redmine)
- ❖ Ansys 14 (Mechanics, CFD, Rigid Dinamics, Multiphysics)

COURSES

2004   PL/SQL for programmers – Oracle Hungary

2003   SQL for programmers – Oracle Hungary

2003   SQL basics – Oracle Hungary

2002   C++ programming (Windows)

2002   Java programming

2001   Linux basics

2001   C++ programming (Unix)

2001   Universal Modelling Language (UML)

2001   Object Oriented Design (OOD)

2001   Object Oriented Patterns (OOP)

2001   Communication Networks – Lynross Training & Consultancy

2000   Session Initiation Protocol (SIP)

2000   HTML/SGML

EDUCATION

2010 – 2012   University of Szeged

Faculty of Science and Informatics

PhD School in Computer Science – PhD student /not finished

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2001 – 2005   Budapest University of Technology and Economics
               Faculty of Economic and Social Sciences
               Master of Business Administration (MBA)

1995 – 2000   Budapest University of Technology and Economics
               Faculty of Natural and Social Sciences
               Engineering Physicist

Language knowledges: **English** (fluency; C type intermediate state language exam)

                            German (intermediate; C type basic state language exam)

                            Hungarian (mother tongue)