

Alex (Feixiang) Pan

AWS Certified Solutions Architect

Technical Skills

- Over **17 years** of working experience in **C++**, **Java**, **JavaScript**, **Python** and **PHP**.
- **Java**: **Spring Boot**, **Maven**, **Gradle**, **JUnit**
- **Javascript**: **Node.js**, **Angular**, **React**, **Redux**, **Backbone**, **TypeScript**, **GraphQL**, **D3**
- **Python**: **Django**, **NumPy**, **Pandas**, **Matplotlib**, **Scrapy**, **Beautifulsoup**
- **Blockchain** and **Web 3.0**: **Web3.js**, **Ethereum**, **Smart Contracts**, **Solidity**, **Metamask**
- **AWS**: **Cost Estimation**, **IAM**, **EC2**, **S3**, **RDS**, **ECS**, **ECR**, **CodePipeline**, **Elasticsearch**, **ElastiCache**, **API Gateway**, **Lambda**, **SES**, **SNS**, **SQS**, **CloudFormation**, **CloudWatch**, **DynamoDB**, **Kinesis**, **AWS SDK**, **Serverless**
- **CICD/Monitoring**: **Git**, **Jenkins**, **Docker**, **Splunk**, **PagerDuty**, **Sentry**, **CloudHealth**, **Datadog**
- **Front End**: **Bootstrap**, **Materialize**, **Foundation**, **SASS**, **Gulp**, **Webpack**, **Styled Components**
- **Real-Time Communications Development**: **WebRTC**, **Socket.io**
- **Systems**: **Windows**, **macOS**, **Linux**.
- **Database**: **MySQL**, **PostgreSQL**, **MongoDB**, **DynamoDB**, **Redis**, **SQLite**
- **Payment/Identity**: **PayPal Pro**, **Moneris**, **Helcim**, **Stripe**, **Auth0**

Employment History

Teck Resources Limited

Vancouver, Canada

May 2022 to Present

Role: Software Architect | Lead Developer

Responsibilities:

- Design software architecture, databases.
- Design cloud solutions, estimate cloud costs and implement cloud applications

Featured Projects:

- Mine Value Maximizer



RBC Toronto, Canada Apr 2021 to Apr 2022

Role: Lead Developer

Responsibilities:

- Design cloud solutions, estimate cloud costs and implement cloud applications.
- Build a large-scale Foreign Exchange/Money Markets/Bonds application using React.js, Redux, Node.js, Java, Python, MySQL, MongoDB and AWS Services, MQ.

Featured Projects:

- RBC DX Modernization

Toronto Stock Exchange Toronto, Canada Jan 2020 to Feb 2021

Role: Cloud Solutions Architect | Lead Developer

Responsibilities:

- Design Cloud Solutions and estimate Cloud Costs.
- Design the software architecture, databases.
- Design and implement Serverless Alerts System on AWS.
- Build Web Applications using React, GraphQL, Node.js, Python, PostgreSQL, DynamoDB, MQ.
- Migrate data from legacy system to new system.
- Monitor systems using CloudHealth, Sentry, Datadog.

Featured Projects:

- TMX Money Matrix
- TMX Money Serverless Alerts System

Slalom Consulting Toronto, Canada Apr 2019 to Jan 2020

Role: Cloud Solutions Architect

Responsibilities:

- *Work on a large-scale, custom distributed software systems using Java/Spring Boot and JavaScript(React.js, Node.js) technologies*
- *Design software architecture and cloud solution(AWS)*
- *Implement code written structured for metrics monitoring and logging*

Featured Projects:

- RoyaltyOne: Air Miles Realtime Checkout



Toronto Stock Exchange Toronto, Canada

Apr 2017 to Apr 2019

Role: Lead Developer

Responsibilities:

- Design the software architecture. Define and decide development technology and platform. Design databases and tables. Define development standards, e.g., coding standards, request/response format, tools, review processes, test approach, etc.
- Web application security enhancement.
- Interview developer, coach and consult developers.
- Build Web Applications using React, GraphQL, Node.js, Django, Java, PostgreSQL, MongoDB, etc.

Featured Projects:

- TMX Matrix
- TMX Webstore
- TMX Money

Capco Toronto, Canada

Feb 2017 to Apr 2017

Role: Lead Developer

Responsibilities:

- Design Application Front-end Architecture.
- Design API requests and responses data format.
- Implement responsive Angular 2/4 web app.
- Build RESTful Web Services by using Java/Spring Framework

Featured Projects:

- President's Choice Financial

Horizon Studios Inc. Toronto, Canada

January 2015 to January 2017

Role: Senior Full Stack Developer

Responsibilities:

- Design Application Architecture and Database Structure.
- Develop LAMP and Javascript full stack(React.js, Angular.js, Node.js) web applications.

- Develop Horzn Notifications System using Mean stack.
- Develop Horzn Files Management Software using Node.js

Featured Projects:

- Motorola Insiders Android Apps.
- Motorola Sales Training Platform: motorolainsiders.com
- RBC Mobile Learn: rbcmobilelearn.com
- Horzn Notifications System
- Horzn Files Management Software

Sumbola Inc. Toronto, Canada August 2012 to December 2014

Role: Senior Full Stack Developer

Responsibilities:

- Develop Web application and Restful API.
- Mobile Application Development (Android and iOS).
- Develop JavaScript MVC applications using Backbone.js and AngularJS.
- Payment Gateways integration.
- Code and Database Optimization.

Featured Projects:

- Online reading platform: sumbola.com
- Local classifieds website: buyandsell.com

PX Computing Markham, Canada May 2009 to July 2012

Role: Full Stack Developer

Responsibilities:

- Designed Web Application structure involving database implementation based on User Requirement Specification.
- Build Applications using LAMP, ASP.NET and Javascript.
- Unit testing and Integration testing, Coding optimization and database performance tuning.
- Developed Order/Payment System using PayPal API.

ICBC (Industrial & Commercial Bank of China)

China

July 2005 to August 2008

Role: Software Developer

Responsibilities:

- Develop Housing Fund Query System
- Database monitoring, performance Tuning

Projects

- Mine Value Maximizer
- RBC DX
- RoyaltyOne: Air Miles Real Time Checkout airmiles.ca
- TMX Money Matrix money.tmx.com
- TMX tmx.com
- TMX Matrix tmxmatrix.com
- TMX Webstore tmxwebstore.com
- TMX Money tmxmoney.com
- TMX Datalinx tmxdatalinx.com
- Student Life Network studentlifefnetwork.com
- President's Choice Financial pcfinancial.ca
- Online Dating Website(Video Chat) jymatchmaker.com
- Motorola Sales Training Platform motorolainsiders.com
- RBC Mobile Learn rbcmobilelearn.com
- Kobo Online Training Platform discoverkobo.com
- Horizn Notifications Service
- Horizn Files Management System
- Sumbola Online Reading sumbola.com
- BuyandSell.com buyandsell.com
- ABCD Office Furniture Inc. abcdfurniture.com
- University of Toronto - MIE Online Forms System <https://forms.mie.utoronto.ca/admintask>
- Kashi Food Products Company kashi.ca

Education & Certifications

AWS Certified Solutions Architect - Associate

<https://www.youracclaim.com/badges/b241508b-8e7c-482d-841d-238e95e3bb48>

Sun Yat-sen University, China

2001 to 2005

Bachelor of Computer Science