

Andrei Purdila

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Professional Summary

Highly experienced software development engineer with expertise in AI, advanced system design, cloud technologies, Machine Learning, data analysis, statistics, big data processing and scalable system solutions. Proficient in Java, C#, Scala, Python, and more. Experienced with cloud technologies such as AWS and Azure and with big data processing solutions such as Spark and Hadoop. Passionate about innovative problem-solving and optimization.

Education

- Stanford University - Artificial Intelligence course (2025-present)
- University of Bucharest, Romania - Bachelor of Computer Science (2013-2016)
- University "Alexandru Ioan Cuza" Iasi, Romania - Masters in Computational Optimization and Machine Learning (2016-2018)

Skills

- Advanced AI, statistics, data analysis and Machine Learning skillset
- Advanced system design knowledge, data structures and algorithms
- Advanced knowledge on AWS, Azure, Machine Learning OPS and ETL, Spark and Hadoop
- Advanced knowledge on Java, Scala, C#, .net and Python, SQL, PL/SQL, Git
- Basic knowledge of Matlab, R, JavaScript, Linux and Assembler

Experience

- **Founder @ TechVibe Consulting (2024):** IT consulting company specialized in AI solutions, big data, software development, cloud architecture, and IT strategy. We provide tailored, scalable, and high-performance technology solutions for startups, enterprises, and businesses worldwide. By leveraging cutting-edge AI and emerging technologies, we help organizations optimize processes, enhance decision-making, and drive innovation.
- **AI Trainer @ SDA Academy (Feb 2025 - present):** Deliver hands-on training sessions for professionals and aspiring developers, covering AI, data analysis, Python, and Java. Design course content, mentor students, and provide practical insights to bridge the gap between theory and real-world applications.
- **Senior Special Clouds Software Development Engineer, Microsoft (Mar 2023-Mar 2024):** Worked extensively with Azure, C#, Machine Learning Ops (MLOps) and Python. Played a key role in coordinating integration efforts across multiple teams to ensure seamless collaboration. Provided mentorship to younger colleagues, fostering professional growth and knowledge sharing. I was solely responsible for all the system designs across our team.
- **Special Clouds Software Development Engineer, Microsoft (Feb 2022-Feb 2023):** Worked extensively with Azure, C#, Machine Learning Ops (MLOps) and Python. Contributed to innovative cloud projects for sovereign clouds built by Microsoft with a focus on compliance, scalability, and performance using Azure. Supported team collaboration and knowledge exchange.
- **Software Development Engineer, Amazon (Jul 2016-Jan 2022):** As a member of Robot Detection team, I worked extensively with data analysis, statistics, and machine learning on Amazon's vast datasets. Developed machine learning systems, including both the code and ML models, used company-wide for critical business decisions. Utilized SQL, Java, Scala, Python, AWS, and Spark to build scalable and efficient solutions, significantly enhancing data-driven decision-making processes. As part of the on-call rotation, I handled incidents involving detection system failures and complex data anomalies requiring deep analysis. My role involved developing hands-on expertise in web scraping techniques, which I applied to create and support systems designed to detect and prevent bot traffic and malicious data activity.
- **Software Development Intern, Amazon (Jul 2015-Sep 2015):** Built a data analysis tool for the Robot Detection Research team by leveraging Java, front-end technologies such as JavaScript and Hadoop for the big data processing

Projects

- **Diabetic Retinopathy Detection:** Developed an application using machine learning techniques in Matlab, R, and Python to automatically detect diabetic retinopathy.
- **Emergency Alert App:** Created an Android app that alerts authorities and trusted contacts with the user's location during emergencies.