Alex Doe

Software Engineer
PhD

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SUMMARY

I am a software engineer with a background in distributed systems and machine learning. I have extensive experience building scalable web applications and cloud-native solutions. My expertise spans full-stack development, DevOps automation, and AI/ML integration. I enjoy creating open-source tools that simplify complex workflows and contribute to open-source communities. Also, I am not a real person and this this CV is completely made up, courtesy of ollama and Quen3:8b running locally.

SKILLS

- **Programming**
  JavaScript (Node.js React)
  Python
  Java
  C++
  Rust
- **Main Toolkit**
  - Docker, Kubernetes, Terraform
  - Git, GitHub Actions, CI/CD
  - REST APIs, GraphQL, WebSockets
  - TensorFlow, PyTorch, MLflow
- **Cloud Computing**
  Amazon Web Services
  Google Cloud Platform
  Microsoft Azure
- **Full-Stack Development**
  - Frontend: React, Vue.js, HTML5, CSS3
  - Backend: Node.js, Express, Django
- **DevOps & Automation**
  - Monitoring: Prometheus, Grafana
  - Logging: ELK Stack, CloudWatch

LANGUAGES

- English: Native
- Spanish: B1
- French: A2

EXPERIENCE

Senior Software Engineer at TexaNech Solutions — March 2023 — Present

- Led the development of a full-stack SaaS platform for real-time analytics, using React, Node.js, and AWS Lambda
- Designed and implemented a CI/CD pipeline with GitHub Actions and Terraform for automated deployment
- Collaborated with cross-functional teams to integrate machine learning models for predictive analytics

Research Software Engineer at QuantumAI Lab — September 2020 — February 2023

- Developed distributed computing frameworks for large-scale simulations using Python and Kubernetes
- Built a cloud-native toolchain for managing AI workloads across hybrid cloud environments
- Published a paper on optimizing distributed training for deep learning models in a top-tier conference
- Mentored junior engineers in cloud architecture and DevOps best practices

EDUCATION

PhD in Computer Science at Delft University of Technology — September 2016 — August 2020

Focused on distributed systems and parallel computing • Published 5 peer-reviewed papers on cloud-native architectures • Awarded a grant for research on edge computing for IoT applications • Stipend recipient for international conference participation

Master's in Software Engineering at Technical University of Eindhoven — September 2014 — August 2016

Graduated with distinction • Thesis: "Scalable Microservices Architecture for Real-Time Data Processing" • Internship at a fintech startup building high-performance trading platforms

Bachelor of Science in Computer Science at University of Amsterdam — September 2010 — August 2014

Internship at a SaaS company developing backend systems for enterprise clients

PRODUCTS & OPEN SOURCE SOFTWARE

AutoDevOps https://github.com/alexdoe/autodevops

A CLI tool for automating DevOps workflows across multiple cloud providers.

RealtimeAnalytics https://realtimeanalytics.io

A web application for visualizing live data streams using React and WebSocket.

CloudOpt https://github.com/alexdoe/cloudopt

A Python library for optimizing cloud resource allocation using reinforcement learning.

DockerizeMe https://github.com/alexdoe/dockerize-me

A tool for converting monolithic applications into containerized microservices.

PRESENTATIONS

- AI and Machine Learning in Neuroscience, University of Toronto 2023
- Joint symposium on AI and Robotics, Brown University and University of Pennsylvania 2020, 2021
- Online Symposium on Data Science, SFB123 2020
- Machine Learning in Clinical Research, Siemens Germany 2017
- Joint symposium on Distributed Systems, TU Delft, MIT, and Harvard University 2013, 2015

PUBLICATIONS

- Doe A, Smith J. (2025). Scalable Microservices Architecture for Real-Time Data Processing. Journal of Distributed Systems, 15(3): 45–62.
- Doe A. (2025). Optimizing Cloud Resource Allocation with Reinforcement Learning. Proceedings of the International Conference on Cloud Computing, 2021: 112–120.
- Doe A, Lee K. (2024). Distributed Training for Deep Learning in Hybrid Cloud Environments. IEEE Transactions on Cloud Computing, 8(4): 1234–1245.
- Doe A, Zhang Y, Chen L. (2024). AI-Driven CI/CD Pipeline Optimization for Microservices. IEEE Transactions on Software Engineering, 50(1): 112–128.
- Zhang Y, Doe A, Chen L. (2023). Securing Serverless Functions with Dynamic Policy Enforcement. ACM Transactions on Privacy and Security, 28(2): 1–22.
- Doe A, Smith J, Lee K. (2023). Serverless Architecture for Event-Driven Applications. IEEE Transactions on Software Engineering, 49(6): 1234–1248.
- Lee K, Doe A, Smith J. (2022). Automated CI/CD Pipelines with Machine Learning. ACM Transactions on Software Engineering and Methodology, 30(4): 1–25.
- Chen L, Doe A, Zhang Y. (2022). Performance Analysis of Edge-Cloud Collaboration in IoT Systems. IEEE Internet of Things Journal, 9(7): 5678–5692.
- Lee K, Doe A, Smith J. (2021). Scalable CI/CD Pipelines for Microservices. IEEE Software, 38(5): 45–56.
- Smith J, Doe A, Lee K. (2021). Securing Microservices with Zero Trust Architecture. IEEE Cloud Computing, 9(3): 56–67.
- Smith J, Doe A, Lee K. (2020). Quantifying Latency in Edge-Cloud Architectures. IEEE Transactions on Network and Service Management, 17(1): 123–137.
- Lee K, Doe A, Smith J. (2019). Dynamic Resource Allocation in Hybrid Cloud Environments. Journal of Parallel and Distributed Computing, 132: 112–125.