Alexander R. Smith

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Profile

A results-driven Senior Software Engineer with over 5 years of experience in developing scalable, privacy-preserving machine learning infrastructure. Proven ability to lead cross-functional teams and deliver high-impact projects from concept to production.

Education

MSc in Computer Science *Sep 2019 – Jun 2021*
Stanford University *GPA: 4.0/4.0*

- Specialized in Machine Learning and Systems.
- Thesis: "Optimizing Large-Scale Distributed Training of Deep Neural Networks".

BSc in Computer Engineering *Sep 2015 – Jun 2019*
University of Illinois Urbana-Champaign *Magna Cum Laude*

- Dean's List (2016–2019).
- Undergraduate Research: FPGA acceleration for convolutional neural networks.

Professional Experience

Senior Software Engineer *Jul 2021 – Present*
Google LLC *Mountain View, CA*

- Led development of privacy-preserving ML infrastructure using federated learning techniques.
- Collaborated with cross-functional teams to deploy production ML models to Google Search.
- Mentored 3 junior engineers and interns.

Software Engineering Intern *Jun 2020 – Sep 2020*
Amazon Web Services *Seattle, WA*

- Implemented scalable REST APIs in Java and Spring Boot for internal developer tools.
- Improved data pipeline performance by 30% via Spark job optimizations.

Projects

AI Resume Builder   *Actively maintained*
Open Source Project   *GitHub: github.com/alexrsmith/ai-cv-builder*

- Built a real-time CV generator using Vue.js and Firebase.
- Integrated GPT-based autofill for resume fields.

Voice-Controlled Smart Mirror   *Built with Raspberry Pi and Python*
Personal Project

- Integrated voice recognition with facial detection.
- Displayed weather, calendar, and news using custom APIs.

New Section

CERTIFICATIONS

AWS Certified Solutions Architect – Associate *Issued Oct 2023*
Amazon Web Services

Deep Learning Specialization *Completed on Coursera*
Coursera (Andrew Ng)
- Neural networks, CNNs, RNNs, and sequence models.
- Capstone project using TensorFlow.

VOLUNTEER WORK

Technical Mentor *Dates not specified*
Code2040
- Mentored underrepresented students in tech, guiding them through project development and interview prep.

Workshop Speaker *Provided advanced React.js training*
Local Hack Day