Nathan Hadi

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EXPERIENCE

Amazon   June 2021 - January 2023
Software Development Engineer   *Sunnyvale, CA*

- SDE for Alexa Automotive SDK team in Amazon Smart Vehicles working with embedded systems.
- Created design proposals with architectural, sequence, and state diagrams.
- Wrote C++ and Java implementation and tests for features such as Offline Local Navigation and Connectivity for Automotive OEMs.
- Resolved issues from OEMs to support Linux and Android platforms for our product.

Tuition.io   June 2020 - August 2020
Software Engineering Intern   *Santa Monica, CA*

- Software Engineering Intern for the Engineering Team of Tuition.io.
- Created an automated system for file handling and parsing involving Amazon Web Services (S3, Lambda, DynamoDB) using Typescript and Node.js on Serverless system.

Tarana Wireless   May 2019 - August 2019
Software Engineer Intern   *Santa Clara, CA*

- Software Engineering Intern for the Digital Signal Processing (DSP) team of Tarana Wireless.
- Developed YANG models using the YANG data modeling language to create clearer data pathways for data from a stat proxy and created python test scripts that collect data features obtained from a wireless node over a period of time to confirm that the node is working.

EDUCATION

University of Illinois Urbana-Champaign
Bachelor of Science in Computer Science   June 2018 - May 2021
Master's in Computer Science | GPA: 4.0   Expected Graduation: May 2026

PROJECTS

Twitch AI Chat Assistant | *AWS (Lambda, DynamoDB, ECS), Python, React, Typescript, Gemini*

- Architected a serverless full-stack application that processes Twitch chat in real-time using ECS Fargate, stores messages in DynamoDB, and provides AI-powered natural language querying through Lambda with session-based context from Twitch Helix API.
- Built a React and TypeScript frontend deployed on AWS Amplify, integrating Gemini AI model with secure credential management via AWS Secrets Manager.

TECHNICAL SKILLS

Languages	Python, C++, Java, Javascript
Platforms/Frameworks	AWS services (EC2, S3, Lambda, etc.), Flask, Android, Linux, iOS