

Binh Tran

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EDUCATION

Gettysburg College

B.S in Computer Science

Gettysburg, PA

Graduated: May 2025

- **Relevant Coursework:** Operating Systems , Databases, Computer Networks, System Design, Data Structure

EXPERIENCE

Software Developer Engineer Intern

May 2024 – August 2024

Amazon Web Services

Seattle, WA

- Implemented a **REST API** for AWS Run Command with **Java** and **Google Guice**, handling **80%** of incoming requests and improving overall performance
- Developed an **AWS CLI** tool that automated cloud instance management, cutting operation times by **30%** and enhancing workflow efficiency.
- Boosted API reliability and throughput by analyzing **200,000** logs and metrics in **AWS CloudWatch**, identifying and resolving critical issues

Software Developer Engineer Intern

May 2023 – August 2023

Amazon Web Services

Seattle, WA

- Engineered monitoring tools in Java for distributed systems with 10,000+ hosts, using **Amazon S3** and **DynamoDB** to store and retrieve system metrics
- Leveraged **Python** and **Amazon Forecast** to predict cloud host requirements for **3–12** months, automating the storage of predictive data in **DynamoDB**
- Deployed monitoring tools across 50+ regions through **CI/CD pipelines**, enabling cross-team adoption and provide greater system insights

Undergraduate Research Assistant

May 2022 – July 2022

Gettysburg College

Gettysburg, PA

- Designed 2D RPG Game using the **Godot** engine, featuring AI-driven character behavior
- Developed an intuitive user interface with **GDScript**, resulting in significantly enhanced player engagement

PROJECTS

CMS-1500 Auto-Validator | *Python, FastAPI, React, TypeScript, Amazon Textract, Google Gemini*

- Built a web application for CMS-1500 medical claim forms using **FastAPI** and **React**
- Implemented a **rule-based parser** for validating fields from **fillable PDF forms**, and used **Amazon Textract OCR** to handle unstructured data from images.
- Integrated a **Google Gemini**-powered **LLM chatbot** to explain validation errors

AWS Serverless Image Processing Platform | *Go, AWS S3, Lambda, Gateway, TypeScript*

- Built a **distributed image processing pipeline** with **serverless architecture** using AWS Lambda and S3, enabling scalable and reliable image transformation
- Implemented a image processing system using **AWS API Gateway** and using presigned URLs for secure, efficient high-traffic handling
- Implemented a front-end interface using **TypeScript** for uploading and downloading images, enhancing user interaction with the platform

Air Quality Monitor | *JavaScript, NodeJS, React, Express, InfluxDB, Arduino*

- Engineered a back-end architecture using **Node.js**, **Express**, and **InfluxDB** to process and manage over **10,000** daily air quality data points
- Integrated **Arduino** hardware with software systems to enable real-time air quality monitoring and data analysis.
- Refined and optimized **Arduino-based** hardware code, significantly improving data accuracy

TECHNICAL SKILLS

Languages: Java, C/C++, Python, JavaScript, PHP, SQL, Golang, Bash

Frameworks: NodeJS, ReactJS, Spring, ExpressJs, Google Guice, Tailwind, Vue, Flask, LangChain, LangGraph

Developer Tools: AWS, Postman, Docker, Git, Jupiter Notebook, GitHub, Cursor, Linux

Cloud/Databases: AWS EC2, Amazon S3, DynamoDB, Forecast, AWS System Manager, MongoDB, Oracle database, MySQL, Redis