

Huy Bui

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EDUCATION

Purdue University

Bachelor of Science in Computer Science

May 2024

West Lafayette, IN

CERTIFICATIONS

AWS Certified Solutions Architect – Associate (SAA-C03)(Issued: April 2025)

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript

Developer Tools and Frameworks: Git, Docker, Postman, Jupyter Notebook, npm, React, Node.js, SpringBoot, JUnit, Express.js, REST API

Cloud/Infrastructure: AWS (S3, RDS, DMS, EC2, ElastiCache, Glue, DynamoDB), Google Cloud Platform

Big Data Tools: Spark (PySpark), Hadoop (HDFS, YARN), Kafka, Redis

EXPERIENCE

LG CNS

September 2024 – Now

Software Engineer - Data Architecture Team

Hanoi, Vietnam

- Engineered a large-scale marketing optimization platform (MOP) ingesting multi-source ad data via **EKS**, **Lambda**, and **Batch** jobs into a S3 data lake; built scalable data pipelines using **AWS Glue**, enabling analytics via **Athena** and **Sagemaker**, and optimizing ML-based bidding jobs
- Deployed a scalable cloud-based database solution for Transit System of Athens/Greece **supporting 1M+ daily passengers** and daily transactions **exceeding \$500K**
- Migrated an AWS/PostgreSQL database from on-premise Oracle for a platform **supporting 10,000+ daily users**, **processing over \$15K** in daily transactions with **zero data loss and 99.9% uptime**

Triple Lift

May 2022 – August 2022

Software Engineer Intern - Connections Team

New York, NY

- Enhanced data pipeline throughput by update Python ingestion scripts with threading and parallelization to process **500,000+ records daily from Kafka into S3**, reducing collection **from 6 hours to 2 hours**
- Optimized real-time data access by integrating **Redis** caching into a GraphQL endpoint, refining queries, and compressing API responses, **cut latency by 50%**
- Built a visualization dashboard in **Next.js/TailwindCSS** to expose aggregated Rules API data, **empowered 200+ engineers** to automate rules deployment on ads setting, **resulting in a 40% time savings**

Pebblst

January 2022 – May 2022

Software Engineer Intern

West Lafayette, IN

- Scaled a **REST API** endpoint transferring data to an **AWS S3 Bucket** from handling **500 daily requests up to 100 requests per minute** by internship end
- Constructed an **AWS Lambda** function in **Python** to **process 10,000+ user profiles weekly**, generating personalized recommendations and **resulting in 23% more item selections per session**

PROJECTS

Boil-it-up | *MongoDB, Express.js, React, Node.js, Git*

- Led a team of 5 students through **3 Agile iterations** of development to build a platform where students can share their recipes, search for recipes based on the available ingredients, do groceries and dietary planners
- Collaborated with teammates to conduct design documentation, build a user interface with **20 React components**, and write over **100 unit tests** that achieved **80% code coverage**
- Developed back-end server and API endpoints with **Express.js** and **Node.js**, connecting to **MongoDB** database

Split news | *Svelte, Java, SpringBoot, PostgreSQL, Google Cloud Platform, Git*

- Built a web platform that scrapes news articles off the web, categorizing them into a political spectrum of Democrat or Republican to combat misinformation on the internet
- Designed user interface utilizing **Svelte**, and built data management backend in **Java** and **SpringBoot**
- Hosted **PostgreSQL** database server in **Google Cloud SQL** that fetches data from **Google News API**