Huy Bui

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EDUCATION

Purdue University   West Lafayette, IN
Bachelor of Science in Computer Science and Mathematics   *May 2024*

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Scala, Go
Developer Tools and Frameworks: Git, Docker, AWS S3, Google Cloud Platform, Postman, Jupyter Notebook, Hadoop, Spark, npm, React, Node.js, SpringBoot, JUnit, Express.js, REST API, Numpy, Pandas
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Database Systems, Compilers, Cloud Computing, Computer Architecture, Software Testing, Systems Programming, Information Systems, Software Engineers

EXPERIENCE

Triple Lift   Jun. 2022 – Aug. 2022
Software Engineer Intern - Connections   *New York, NY*
- Enhanced performance tuning of Rules API **realizing an increase of 5% in SLA time**, and **increasing test coverage from 60% to 80%** for improved stability
- Optimized a **GraphQL** endpoint by refining **SQL** queries and compressing API responses, **reducing data fetching latency by 50%**
- Built a visualization dashboard in **Next.js** and **TailwindCSS** that integrates with Rules API, **empowered 200+ engineers** to automate rules deployment on ads setting, **resulting in a saving time of 40%**
- Enhanced data pipeline efficiency by upgrading Python scripts with threading and parallelization, enabling faster data collection from multiple sources.

Pebblst   Jan. 2022 – May. 2022
Software Engineer Intern   *West Lafayette, IN*
- Developed Pebblst website using **JavaScript, CSS, Bootstrap**, an e-commerce platform that incorporates a personalized gift recommendations system using content-based model algorithms and data analysis
- Scaled a **REST API** endpoint transfering 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** that **processes 10,000+ user profiles weekly** to generate personalized recommendations, **resulting in 23% more item selections per session**

Purdue IT Lab   July. 2023 – Present
Technology Representative   *West Lafayette, IN*
- Solve technical and software challenges at Purdue IT lab, utilizing both automation and advanced IT tools

PROJECTS

TuringGame.ai | *Next.js, TailwindCSS, API, Firebase, Google Cloud Platform*
- Created a game-based web application that tests players' ability to differentiate between human and machine-generated responses, while raising AI awareness and providing a testing environment for developers
- Programmed front-end pages in **Next.js 13** and **TailwindCSS**, integrated **OpenAI API** for real-time features
- Deployed serverless backend with **Firebase Cloud Functions** and **Firebase Firestore**, connecting with **Google Cloud Platform** to store website data in **Google Cloud Storage**

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 and 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, and combating misinformation on the internet
- Designed user interface utilizing **Svelte**, and built handling data management backend in **Java** and **SpringBoot**
- Hosted server and **PostgreSQL** database in **Google Cloud SQL** that fetches data from **Google News API**