Huy Bui

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EDUCATION

Purdue University West Lafayette, IN

Bachelor of Science in Computer Science & Minor in Mathematics **August 2018 - May 2023**

Relevant Coursework: Data Structures and Algorithms; Operating System; Database Systems; Cloud Computing; Computer Architecture; Software Testing; Systems Programming; Information Systems; Software Engineers I.
Interest: Software Engineering, Software Development, DevOps.

SKILLS

Programming Languages: Java (expert), Python, C, C++, TypeScript, JavaScript, HTML/CSS, SQL, PostgreSQL, MongoDB.
Tools and Framework: Firebase, Postman, Git, GitHub, npm, Babel, React, Node, Docker, AWS S3, Google Cloud Platform.

WORK EXPERIENCE

Triple Lift New York, NY

Software Engineer Intern June 2022 – Aug 2022

- One of the top contributors to the development of Triple Lift next generation of programmatic advertising technology.
- Refactored redundant 30% Java backend code, optimized endpoints, established needed structures for future expansions, and increased code coverage of these features from 50% to 70% by writing unit tests.
- Designed, developed, and deployed a UI, that enables 200+ engineers to communicate and automate deployment with an internal tool RULES API, using Next.js and Tailwind CSS.
- Utilized algorithmic problem-solving and Python to develop scalable computer vision technology that identifies critical elements in ads and generates optimized native placement.

Pebblst West Lafayette, IN

Software Engineer Intern Jan 2022 – May 2022

- Developed Pebblst, an e-commerce website utilizing algorithms to suggest personalized gift recommendations.
- Built Lambda functions to process and analyze data for personalized recommendations.
- Engaged in SCRUM team activities, including daily standup, sprint planning, and code review over 16 weeks.

PROJECTS

TURINGAME.AI

- 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 page using Next.JS 13 and Tailwind CSS; Integrated OpenAI API for real-time game-like chat features. Deployed serverless backend with Firebase Cloud Functions, Firebase Firestore, interacting with Google Cloud Platform to store website data in Google Cloud Storage.
- Presented the project results in front of 100 attendees at the Purdue CS Project Capstone.
- Tools & Technology: Next.js, Tailwind CSS, Firebase, Google Cloud Platform, GitHub

BOIL-IT-UP

- 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, and real-time groceries and dietary planners).
- Collaborated with teammates to conduct design documentation, develop 20 API endpoints, build intuitive user interface with 16 React components, and write over 100 tests that achieved 80% code coverage using MERN stack.
- Tools & Technology: Node.js, Express.js, MongoDB, React, Redux, GitHub, Firebase.

SPLIT NEWS

- Built a web platform that can bridge the political gap, combat misinformation on the internet, scrape news articles off the web, and categorize them into a political spectrum of Democrat or Republican.
- Designed an interactive user interface utilizing Svelte, created core database design with PostgreSQL and deployed on Google Cloud, and built server handling data management backend (Java, PHP) interacts with PostgreSQL.
- Tools & Technology: Svelte, PostgreSQL, Express.js, Google Cloud Platform, GitHub.