

# Huy Phan

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## PROFESSIONAL EXPERIENCE

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### **Freelance Software Engineer**

*Aug 2023 - Present*

Boston, MA

- Developed a SaaS business software tool enabling efficient order management, providing real-time analytics resulting in a 50% reduction in order processing time, a 70% decrease in data entry errors, a 20% reduction in operational costs
- Implemented a serverless notification system that delivers digital receipts and order-completion alerts via Twilio SMS, improving customer pickup times by 60% and increasing client satisfaction by 50%
- Launched a modern, SEO-optimized business website with responsive UI and Google Analytics integration, increasing online visibility and customer engagement by 90%

### **Natixis Investment Managers**

*Software Engineer Intern*

Boston, MA

*Jun 2022 - Sep 2022*

- Created a centralized full-stack web application with complete documentation that reduced a 22-step manager reporting process to a single click, cutting reporting time from 45 minutes to 10 minutes
- Collaborated with data engineering team to build a Python automation script for downstream data validation in an agile environment, streamlining ETL pipelines and improving load efficiency by 50%
- Developed an automated daily aggregation tool that pulled data from 15 major financial journals and newspapers, slashing research time from 30 minutes to under 5 seconds and enabling faster research and investment insights
- Delivered capstone presentation on ESG investment impacts to the CEO, 20 senior leaders, and 100+ employees, providing actionable recommendations that shaped the firm's future ESG strategy

## PERSONAL PROJECTS

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### **Kafka Logging Pipeline**

*Tools: Kafka, Docker, Lambda, PostgreSQL, Python*

- Engineered a containerized data pipeline using AWS Lambda, Kafka, and PostgreSQL to ingest, process, and store 10,000+ Twilio messaging logs, transforming raw data into structured records for business performance analysis
- Automated the aggregation of messaging logs and generated time-series metrics using Matplotlib, enabling clear visualization of customer engagement trends on a weekly and monthly basis

### **Discrete Event Simulator**

*Tools: Go*

- Designed and implemented a flexible discrete event simulation system in Go, capable of supporting any number of processors and various real-world systems such as gas stations or network traffic
- Integrated probabilistic repair times using a normal distribution with a small standard deviation to simulate realistic failure and repair events, enhancing system accuracy through randomness
- Optimized concurrent event processing with goroutines and channels, reducing average latency by 30% and improving overall simulation efficiency

### **Full Stack Spending Analyzer**

*Tools: Express, React, NodeJS, Firestore, NextJS, Plaid, Vercel*

- Integrated Plaid's transaction service and OAuth flow to securely fetch user's transaction data and built a pipeline moving banking data to Firestore
- Created paginated tables and interactive charts with React and Chakra UI to display spending categories, helping users analyze habits and identify cost-saving opportunities

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, C, JavaScript, HTML/CSS, SQL

**Frameworks & Libraries:** React, Next.js, Node.js, Express.js, Flask, Material-UI, Chakra UI

**AI Agents & Tools:** OpenAI Codex, OpenClaw

**Cloud Platforms:** AWS, GCP, Firebase, Vercel, Netlify, Cloudflare

**DevOps & Tools:** Git, GitHub Actions, Docker, Linux, pytest, Jest, Jira, RESTful APIs, L<sup>A</sup>T<sub>E</sub>X

**Methodologies & Concepts:** Unit Testing, UI/UX Design, OOP, SDLC, Data Visualization, Agile

## EDUCATION

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### **Boston University**

*Bachelor of Arts: Computer Science, GPA: 3.80/4.00*

- Coursework:** Artificial Intelligence, Software Engineering, Full Stack Development (MERN), Computer Systems, Database Management Systems, Web Development, Algorithm Design + Analysis, Combinatoric Structures, NLP