

Amit Shanbhoug

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EDUCATION

Honours BSc Computer Science (Management & Entrepreneurship option) • University of Ottawa Sep 2018 - Dec 2022

- uOttawa Rowing Team and Chess Team
- Co-authored research paper (<https://bit.ly/3jbECIv>) under review by peer-reviewed academic journal (JASIST)
- Coursework: Data Structures & Algorithms, Design & Analysis of Algorithms, Databases, Software PM Specialization (U of Alberta)

Lyft Back-End Engineering Virtual Experience Program • Forage (Online Learning) Feb 2022

- Wrote a clean design for component, refactored messy system, wrote unit tests and functionality using TDD through Python

PROFESSIONAL EXPERIENCE

Researcher • University of Ottawa • Ottawa, Canada Nov 2021 - Present

- Awarded UROP Scholarship to explore SMART IoT solution for LTC homes to gather, track, and process health and logistics data
- Developing system design of hardware containing data pipeline and data processing to include ML and AI for unstructured data

Full-Stack Developer Intern • Delphic Research • Toronto, Canada May 2021 - Aug 2021

- Built and launched B2B React Native mobile app (MVP) to 5 customers, rapidly iterating features from customer feedback
- Led scrum meetings/sprint planning for team of 4, documenting on Jira and Confluence and prioritizing features to be built for MVP
- Designed and implemented PostgreSQL database with ER diagrams and data sharding to decrease query response time
- Initiated and implemented automation utilizing APIs, saving company ~30 hours/week across intelligence monitoring operations

Founder • RapidRent • Ottawa, Canada Sep 2020 – Jan 2022

- Built a privacy-first leasing management and accreditation mobile app with React Native, Node.js, JavaScript, MongoDB, and Figma
- Implemented payment integration (Stripe) utilizing Vue.js (client-side app), Python, and Flask (server-side API) for web platform
- Finalist at 2021 uOttawa Entrepreneurship Concepts Competition and launched to 34 customers, maintaining a 90% profit margin

Full-Stack Developer • Freelance • Toronto, Canada May 2020 - Aug 2020

- Developed 3+ web apps with integrated APIs using JavaScript, Vue.js, HTML, Bootstrap, and Django REST framework
- Implemented Kanban, reducing feature rollout delay up to 55% for a team of 5+ developers on client project

PROJECTS

Front-End Developer • deCODE Hackathon Sep 2021

- Built a responsive web app using JavaScript, Redux, and TypeScript that organizes group activities based on individual budgets
- Selected to work 1:1 with KOHO, leading fintech product ideation and prioritizing front-end features for MVP demo

Quantitative Developer • Queen's University Algorithmic Network & Trading Team Sep 2020 - Apr 2021

- Represented uOttawa in a [Quantitative Finance Program](#), leading a team of 2 developers and 2 research analysts
- Developed a market-neutral trading algorithm using Python, live trading on QuantConnect, resulting in a 70k+ profit on investment

LEADERSHIP EXPERIENCE

Co-Chair, Board of Directors • Canadian Roots Exchange (CRE) • Toronto, Canada Apr 2021 - Present

- Elected co-chair of 11 persons board, providing direct oversight to Executive Director and \$14M+ funding
- Leads board through consensus building and prioritizing discussion items to make critical and time-sensitive decisions

Co-President • Engineers Without Borders uOttawa (EWB uOttawa) • Ottawa, Canada May 2020 - Oct 2021

- Organized Canada's first student Smart Cities Design Challenge attracting 70+ participants from 6 countries
- Received Innovation in Engineering Award and EWB Canada Diversity Impact Award

Military Serviceman • Singapore Armed Forces (SAF) • Singapore Sep 2016 - Sep 2018

- Received Brigadier General Letter of Commendation, Best Recruit Award (1/300), and Command Star Service Award
- Invited to present *Implementation of Smart City concepts in SAF camps* to Commander of Combat Service Support Command

SKILLS & INTERESTS

Languages: Python, Java, JavaScript, HTML, CSS, TypeScript, SQL, C, OCaml

Tools and Frameworks: Agile, Git, Node.js, Django REST, React, Bootstrap, Tailwind CSS, PostgreSQL, Linux, pandas

Interests: Smart Cities, AI (GPT-3), Clean Tech, Autonomous Vehicles, Product, Spy Fiction/Non-Fiction, Poetry (published)