Aathithan Chandrabalan

📞 +1 (647) 914-7279 @ a69chand@uwaterloo.ca in in/aathi ⌂ github.com/achandrabalan

EDUCATION

University of Waterloo   Sept. 2021 – Apr. 2026
Systems Design Engineering (BASc) Honours Co-op   Waterloo, ON
Coursework: Data Structures, Algorithms, Database Systems, Digital Computation, Operating Systems

TECHNICAL SKILLS

Languages: Python, TypeScript, C#, C++, SQL, GraphQL, Go
Frameworks: Flask, Node, Express, React, Redux, Next.js, .NET
Tools: PostgreSQL, MongoDB, AWS (Lambda + S3), GCP, Docker, CircleCI, Hubspot

EXPERIENCE

Roo 🔗   Sept. 2024 – Dec. 2024
Software Engineer Intern (Express, PostgreSQL, React)   San Francisco, CA
- Developed a shift-preview feature for potential veterinarian clients, enabling them to explore and book open shifts across multiple clinics, driving **3,000+** additional booked calls monthly
- Implemented a real-time spend tracker that paused low-ROI campaigns through integrating HubSpot and AWS Lambda, saving **$75,000** of allocated promotion funds annually
- Migrated payment processing system from Plaid to Stripe, integrating endpoints to provide clearer error messaging during bank account setup, cutting user support requests **by 30%**
- Designed and **optimized queries** to consolidate booking rates and promotional redemption logs, integrating the results into Tableau for data analytics and BI

Boost Collective 🔗   Jan. 2024 – Apr. 2024
Software Engineer Intern (Express, PostgreSQL, React)   Waterloo, ON
- Spearheaded end-to-end implementation of a data analytics dashboard for music artists, enabling them to view audience engagement patterns by calculating and displaying key performance metrics
- Developed a profit split management system for songs with multiple artists, allowing users to invite collaborators and configure royalty splits, adopted by **80% of target user base**
- Configured Meta Pixels to monitor page flow and conversion rates, identifying bottlenecks and optimizing UI/UX, resulting in a **25% boost** in user retention

Multimatic 🔗   May 2023 – Aug. 2023
Software Engineer Intern (C#, SQL)   Toronto, ON
- Streamlined daily SAP log imports by designing a bulk copy module, **cutting write times by 80%**
- Designed a C# data streaming platform to push OneStream financial data to MySQL, enabling Microsoft PowerBI for data visualization and analytics

Kindred AI (now Ocado) 🔗   Sept. 2022 – Dec. 2022
Robotics Software Engineer Intern (Python, Go)   Toronto, ON
- Architected a user interface for robotic arms, enabling real-time motion control and automating testing, **saving 10+** developer hours per week
- Implemented a queue-based waypoint navigation system, resolving race condition movement errors and reducing the overall **error rate by 10%**

PROJECTS

UW Blueprint 🔗
Team Lead (React, Express, GraphQL, MongoDB)
- Led a team of 7 developers to deliver a volunteer shift sign up system with automated alerts for canceled or empty shifts, streamlining workflows and enabling leaders to focus on high-impact tasks