

Austin Graham

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Software Engineer specializing in full stack web development and business process automation, with strong expertise in building secure web applications and working with embedded systems. Demonstrated ability to bridge frontend development, backend APIs, and automated workflows.

Skills

Programming Languages: JavaScript, Python, HTML, CSS, SQL

Frameworks & Libraries: React, Node.js, Express, Bootstrap, Tailwind CSS, React Query

Databases: MySQL, MongoDB, Redis

Tools & Infrastructure: AWS (EC2, S3, DynamoDB), Git, Vite

Systems & Automation: Shell Scripting, Command Line Interface, Embedded Systems, Automation, Network Configuration

Experience

Hardware Systems Technician, Instacart – Burlington, ON

June 2025 – Present

- Deploy applications to embedded devices using command line interfaces, debugging tools, and automated scripting
- Configure and test smart cart systems for deployment, including software/firmware validation and network setup
- Execute automated deployment scripts and system updates for maintenance across 100+ serialized systems
- Diagnose and resolve complex hardware-software integration issues using systematic methodologies
- Collaborate with engineering teams to provide technical feedback on cart performance and product improvement

Projects

StackNova

stacknova.ca | github.com/kyoriku/StackNova

- Architected a comprehensive software engineer community platform with secure HTTP-only cookie authentication, advanced search capabilities, Markdown support with syntax highlighting, and responsive dark/light mode theming
- Implemented dual-layer caching strategy using Redis server-side and React Query client-side caching, achieving 74% faster data retrieval with performance benchmarking and optimized prefetching
- Designed RESTful API with Node.js/Express backend, rate limiting for security, input validation with XSS prevention, optimized MySQL database schema, and UUID-based identifiers for enhanced security

Tech: JavaScript, React, Tailwind CSS, React Query, Node.js, Express, MySQL, Redis, OAuth2

Invoice Automation

- Engineered invoice automation system that processes work schedule emails, manages bi-weekly pay period calculations, tracks invoice numbering, and generates professional invoices with data persistence and error handling, reducing manual invoicing time by 85%
- Integrated Gmail IMAP and Google Sheets APIs with OAuth2 authentication to automatically parse Homebase schedule emails, calculate work hours, and populate invoice templates with financial data and HST calculations
- Implemented automated file generation and email delivery system with PDF/Excel export, SMTP integration, and interactive CLI for data validation, shift editing capabilities, and comprehensive user confirmation workflows

Tech: Python, Gmail API, Google Sheets API, IMAP/SMTP, JSON, OAuth2, PDF/Excel generation

Education

University of Toronto – Certification, Full Stack Web Development

March 2024

- Completed intensive program covering full stack web development technologies and core computer science concepts
- Developed multiple full stack web applications from concept to deployment, using Agile methodologies with peers