

# Austin Graham

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Software Engineer specializing in web development with expertise in performance optimization, SEO, and content management systems.

## Skills

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

**Frontend:** React, Bootstrap, Tailwind CSS

**Backend:** Node.js, Express

**Databases:** MySQL, MongoDB, Redis

**Infrastructure:** AWS (EC2, S3, DynamoDB), Git

## Experience

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**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 debugging
- Collaborate with engineering teams to provide technical feedback on performance and product improvement

## Projects

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**StackNova**

[stacknova.ca](http://stacknova.ca) | [github.com/kyoriku/stack-nova](https://github.com/kyoriku/stack-nova)

- Built full-featured content management and publishing platform enabling users to create, edit, and publish technical articles with Markdown support, syntax highlighting, and advanced search capabilities - implementing secure authentication, responsive theming (dark/light modes), and cross-browser compatibility
- Optimized web performance through dual-layer caching strategy (Redis + React Query), achieving 70% faster page load times with performance benchmarking, prefetching optimization, and cross-device monitoring
- Developed RESTful API backend with content validation, input sanitization, XSS prevention for safe content rendering, and optimized MySQL database schema for efficient content storage and retrieval
- Implemented SEO strategy using Google Search Console, semantic HTML, meta tags, JSON-LD structured data, XML sitemaps and robots.txt configuration - achieving strong accessibility scores and optimal web performance metrics

**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 80%
- 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

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**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 responsive web applications from concept to deployment, using Agile methodologies