

# Jon C

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## Skills

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- **Languages:** JavaScript | TypeScript | Python | SQL | HTML | CSS
  - **Familiar:** Java
- **Frameworks:** Node | Express | Svelte | React | Tailwind | Bootstrap | Jest | SST | Pulumi
  - **Familiar:** Playwright | jQuery
- **Tools:** Linux | Git | Docker | AWS | Firebase | Cloudflare | Redis | WebSocket
- **Other:** DevOps | IaC | Browser Extensions

## Experience

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- Full Stack Developer (Contract) (Toronto, ON, CA, remote) | 2025–
  - Implemented cloud-based distributed processing features using **SST, Pulumi, Docker, AWS (HTTP+WS API GW, DDB, S3, EventBridge, ECR, Lambda, SFN, SQS), Node, Python**, and **Cloudflare**
  - Implemented **Google OAuth2** user login using **GCP Auth Platform** and **JWT**
  - Implemented application user interfaces using **Svelte, Tailwind, Bits UI**, and **shadcn**
- Full Stack Developer | **CommerceBear** (Toronto, ON, CA, remote) | 2023–2024
  - Implemented e-commerce platform APIs using **Node, Express, Ramda, SQL, Elasticsearch**, and **OpenAPI** specification
  - Worked on content generation feature using **Node, SQL, OpenAI API**, and **BullMQ**
  - Scaled monolithic features by migrating to **AWS** serverless pipelines using **AWS SAM, CloudFormation, S3, EventBridge, SFN, SQS, Lambda, ElastiCache Redis**, and **RDS PostgreSQL**
  - Worked on serverless pipeline task progress tracking system using **Node, SQL, SSE**, and **Svelte**
  - Implemented custom real-time data validations in a 3rd party embeddable spreadsheet importer using **Node, Express, SQL**, and **OneSchema**
  - Implemented **Figma** designs into e-commerce platform frontend and HTML email templates using **Svelte** and **MJML**
  - Implemented component showcase using **Storybook** and **Svelte**
  - Wrote unit tests for backend using **Jest** and component tests for frontend using **Cypress**
  - Worked on admin dashboard forms using **React**
  - Worked on optimization, debugging, and tech debt tasks
  - Performed technical discovery based on product requirements and planning of development work on **Linear**
- Full Stack Developer | **Portals** (Toronto, ON, CA, remote) | 2021–2022
  - Designed and implemented multiple full-stack responsive SPA web apps, E2E, using **Node, Express, Python, Java, Svelte, Bootstrap, SQL, Firebase**, and **3rd party APIs**, serving 3k+ MAU
  - Implemented operation queuing system using **WebSockets** and **Promises** after load/stress testing, optimizing resource usage and completely eliminating server overloads from parallel operations
  - Implemented **OAuth2** user login using **Passport** and automatic email sending/verification system using **GCP Gmail API, Nodemailer**, and **WebSockets**
  - Converted vanilla **JavaScript** and **Handlebars** frontend to the **Svelte** framework
  - Ported **Firebase**-based core app to a **SQL**-based version for end users to self-host; from identifying the requirements comprehensively to implementing transformative changes in the backend and frontend, containerizing the app with **Docker**, integrating a **CI/CD** pipeline using **GitHub Actions** and **GHCR**, and simplifying the setup and updating procedures for clients using **Shell**
  - Wrote flexible **SQL** queries in **Node** which accepted variable amounts and/or values of parameters, queries dealing with string vectorization for full-text search, and query functions that handled extremely large datasets for import and export
  - Deployed production web apps using **Git, SSH, DigitalOcean VPS, PM2, NGINX, UFW, Certbot, Cloudflare, Docker Compose, GitHub Actions**, and **GHCR**

## Education

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- Honors Bachelor of Science | **University of Toronto** (Toronto, ON, CA) | 2016–2021
  - Computational Cognition, Computer Science, Statistics

## Projects

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- **expanse** | [GitHub repository](#): 350+ stars | [Docker image](#): 3k+ downloads
  - Featured on the [Self-Hosted show](#), episode 81: <https://selfhosted.show/81?t=2269>
- **eternity** | [GitHub repository](#): 200+ stars
- Freelance work / non-OSS projects:
  - **hsa-db**: a web-scraping + quant calculation + database tool for large stock market datasets from BlackRock and Yahoo Finance. Stack: **Python, BeautifulSoup4, NumPy, SQLite**
  - **discord-role-inviter-bot**: a Discord bot that parses a spreadsheet of user data, then sends out unique (single-use) Discord invites directly into specific server roles. Stack: **Node, discord.js, SheetJS, Nodemailer**
  - **music-revision**: batch music file operations. Trims blank audio from ends (i.e., beginning and end) of songs, adds volume gain tags, and sets normalized filenames and metadata based on acoustic fingerprints. Stack: **Python, Pydub, FFmpeg, r128gain, Shazam API, Mutagen**
  - **surge**: a Chromium browser extension with a modular system containing various independent web+browser automation and media functionalities. Stack: **Vite, Chrome MV3 API, JavaScript, Firebase, Node, Express, Playwright, FFmpeg**
  - **linkedin-post-comment-gen**: a Chromium browser extension that uses a LLM to auto generate comments for posts using post content and metadata, and allows editing/posting them within the native LinkedIn UI. Stack: **Vite, Chrome MV3 API, JavaScript, 3rd party API**
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