

# John Pan

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## Education

<b>Georgia Tech, College of Computing</b> Master of Computer Science, CGPA: 4.0/4.0, August 2024 – August 2027 Part-time while working. <i>Concentration:</i> Computing Systems. <i>Current course:</i> Graduate Operating Systems	Atlanta, Georgia, USA
<b>McGill University, Faculty of Engineering</b> Bachelor of Mechanical Engineering, Computer Science minor. CGPA: 3.66/4.00, Aug 2016 – May 2021 Courses: Data Structures & Algorithms, Database Systems, Java OOP, Software Systems, Applied Machine Learning, AI, Programming Languages & Paradigms	Montreal, Quebec, Canada

## Experience

<b>Shopify</b> – Toronto, ON, Canada <b>Software Engineer</b>	Jan 2025 - Present
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- **Increased payment accuracy and B2B merchant trust** by leading the design and implementation of a new payment allocation logic that correctly attributes payments across partial fulfillments, returns, and cancellations, **supporting 109% year-over-year growth** in B2B gross merchandise value. (**Ruby on Rails**)
- **Accelerated end-to-end delivery of complex checkout capabilities** by building core components, refactoring brittle business logic into maintainable systems, and driving release readiness through comprehensive test cases, local setup workflows, and a pre-release bughunt, enabling a smooth, on-time launch. (**Ruby on Rails, GraphQL**)
- **Improved checkout reliability and conversion (+15%)** by designing and shipping validation logic in Shopify Functions that prevented invalid merchant configurations from reaching production, reducing checkout errors and customer drop-off. (**Ruby on Rails, GraphQL**)
- **Increased engineering productivity (~25%)** by building and rolling out an internal VS Code extension that streamlined navigation in a large monorepo, now used organization-wide. (**TypeScript**)

<b>PearAI</b> – San Francisco Bay Area, CA - <a href="#">Website</a> – <a href="#">GitHub</a> <b>Software Engineer</b>	Jul 2024 - Dec 2024
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- Delivered multiple AI-driven features, including search and memory layers, and designed a responsive onboarding UI integrated into the VSCode Webview, improving the user onboarding experience and boosting customer retention to **over 500 monthly and annual recurring paid subscribers.** (**Python/FastAPI, ReactJS, NextJS, Supabase/PostgreSQL**)
- Built backend server logic using **FastAPI**, implementing user credit management, subscription tracking, and a top-up feature, resulting in a **10% increase in monthly recurring revenue.**

<b>Bell Canada</b> – Montreal, QC, Canada	Feb 2022 – Feb 2024
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**Software Engineer**  
Full-stack web development in the Bell Network Cloud Portal

- Led and developed full-stack features, achieving **80% reduction in lead time** for automated cloud deployments, **saving an average of 450 man-hours.** (**VueJS TypeScript, Python Django REST Framework**)
- Built, and maintained robust **CI/CD pipelines** for new and existing applications, resulting in an **80% improvement in the deployment speed** of new updates and **0% error rate** with no rollback incidents since launching the new application into production. (**OpenShift, Kubernetes, Docker, Gitlab-CI, Artifactory, Helm, Vault**)

## Projects

<b>Autopilot Pi-Car</b> – <a href="#">GitHub</a>	January 2024 – May 2024
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- Developed autopilot software for a Raspberry Pi-powered car (Python).
- Implemented path following capabilities (A\* search) using an ultrasonic radar allowing autonomous navigation.

**Skills:** LLM-based tooling, Python, JavaScript/TypeScript, Ruby, Cursor, Claude, Agentic workflows, Java, C, C++, SQL, HTML, CSS/Bootstrap/material-UI, Git, ReactJS, Redux, VueJS, Docker, Kubernetes, Helm, GitLab-ci, Django REST framework, Postgres, Scikit-learn