

# John Pan

[Website](#) • [GitHub](#) • [LinkedIn](#) • [john.pan@mail.mcgill.ca](mailto:john.pan@mail.mcgill.ca) • +1-514-581-8778 • English/French

## Education

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| <b>Georgia Tech, College of Computing</b><br>Master of Computer Science, CGPA: 4.0/4.0, Jan 2024 – Jan 2026<br>Concentration: Computing Systems. Current course: Graduate Operating Systems  | Atlanta, Georgia, USA    |
| <b>McGill University, Faculty of Engineering</b><br>Bachelor of Mechanical Engineering, Computer Science minor. CGPA: 3.66/4.00, Aug 2016 – May 2021<br>Courses: Data Structures & Algorithms, Database Systems, Java OOP, Software Systems, Applied Machine Learning, AI, Programming Languages & Paradigms | Montreal, Quebec, Canada |

## Experience

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|---|---------------------|
| <b>Shopify</b> – Toronto, ON, Canada<br>Software Engineer   | Jan 2024 - Present  |
| <ul style="list-style-type: none"><li><b>Increased payment accuracy and B2B merchant trust</b> by leading the design and implementation of a new payment allocation logic that correctly attributes payments across partial fulfillments, returns, and cancellations, <b>supporting 109% year-over-year growth</b> in B2B gross merchandise value. (<b>Ruby on Rails</b>)</li><li><b>Accelerated end-to-end delivery of complex checkout capabilities</b> 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. (<b>Ruby on Rails, GraphQL</b>)</li><li><b>Improved checkout reliability and conversion (+15%)</b> by designing and shipping validation logic in Shopify Functions that prevented invalid merchant configurations from reaching production, reducing checkout errors and customer drop-off. (<b>Ruby on Rails, GraphQL</b>)</li><li><b>Increased engineering productivity (~25%)</b> by building and rolling out an internal VS Code extension that streamlined navigation in a large monorepo, now used organization-wide. (<b>TypeScript</b>)</li></ul> |                     |
| <b>PearAI</b> – San Francisco Bay Area, CA - <a href="#">Website</a> – <a href="#">GitHub</a><br>Software Engineer  | Jul 2024 - Dec 2024 |

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|--|---------------------|
| <b>Bell Canada</b> – Montreal, QC, Canada<br>Software Engineer<br>Full-stack web development in the Bell Network Cloud Portal  | Feb 2022 – Feb 2024 |
| <ul style="list-style-type: none"><li>Led and developed full-stack features, achieving <b>80% reduction in lead time</b> for automated cloud deployments, <b>saving an average of 450 man-hours</b>. (<b>Vue.js, TypeScript, Python Django REST Framework</b>)</li><li>Built, and maintained robust <b>CI/CD pipelines</b> for new and existing applications, resulting in an <b>80% improvement in the deployment speed</b> of new updates and <b>0% error rate</b> with no rollback incidents since launching the new application into production. (<b>OpenShift, Kubernetes, Docker, Gitlab-CI, Artifactory, Helm, Vault</b>)</li></ul> |                     |

## Projects

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|---|-------------------------|
| <b>Autopilot Pi-Car</b> – <a href="#">GitHub</a>  | January 2024 – May 2024 |
| <ul style="list-style-type: none"><li>Developed autopilot software for a Raspberry Pi-powered car (Python).</li><li>Implemented path following capabilities (A* search) using an ultrasonic radar allowing autonomous navigation.</li></ul> |                         |

**Skills:** 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