

# Jasper Wang

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## Work Experience

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- Full Stack Developer Co-op** | BC Liquor Distribution Branch | May 2024 – April 2025
- Developed Spring and Angular applications with Azure cloud services and JUnit/Mockito tests
  - Independently investigated the entire tech stack of an internal tool and narrowed down a production bug to the transformation layer from SOAP to JSON, recovering two services displaying service bus invocation audit trail that helps other developers troubleshoot service interactions in real-time
  - Created and maintained Infrastructure as Code pipelines using GitHub Actions and Bicep, enabling consistent deployment of cloud services, network security, and identity management components across environments
  - Created the organization's first automated CICD pipeline for Power Platform applications using GitHub Actions workflows and Bicep, reducing manual deployment time from 4 hours to one click
  - Developed a template repository with pre-configured GitHub Actions workflows and Bicep, enabling developers to bootstrap new Azure projects by simply configuring environment variables and secrets
- eCommerce Technology and Operations Lead** | Earth Baby Outfitters | Nov 2022 – Nov 2023
- Automated SKU information generation (e.g, UPC code validation), and management processes using JavaScript and Python scripts, reducing a full-day manual task to 30 minutes and streamlining product catalog maintenance
  - Led the transition from wholesale-only to retail operations by implementing a comprehensive eCommerce and marketing stack (Shopify, Gorgias), establishing direct-to-consumer channels through SEO optimization, Google Ads campaigns, omnichannel marketing (Email/SMS), and social media presence, enabling retail operations

## Projects

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- Bob Is Melting Platformer Game** [↗](#) | Java, LibGdx, Gradle, Git | Feb – May 2024
- Created diverse enemy behaviors using Template pattern for customizable movement mechanics and Factory pattern for efficient monster generation
- jasperwang.dev** [↗](#) | React, TypeScript, Astro.js, NodeJs, NPM, Git, Github Pages | Oct 2023 – Present
- Designed and implemented a fully featured blog and portfolio site, developed customized designs and functionalities like table of content generation, scroll-spy, and cursor animations
- RainMate** [↗](#) | Firebase, MapBoxGL JS, JavaScript, jQuery, Bootstrap, Git | Sep – Nov 2023
- Took on roles as lead developer and project manager using Scrum to lead and mentor developers through one-week sprints resulting in on-schedule launch of an app now used as course model for future terms
  - Faced the challenge of implementing geo-queries in Firestore, solved by integrating Geohashing, which allowed for accurate (up to a meter) proximity searches computed on the client side per project requirements
- Single User Dungeon Command Line Game** [↗](#) | Python, Git | Nov – Dec 2023
- Developed a parser to transform text files into fun dialogue interactions that can be rendered on the terminal
  - Created test suite to cover all critical functionalities, and used PyCharm's debugger extensively resulting in error-free user experience
- Katex Fashion Co.** [↗](#) | SCSS, JavaScript, HTML, Parcel.js, NPM, Git | May – June 2020
- Developed and deployed a bespoke landing page for a clothing factory utilizing the BEM methodology to create reusable custom styling components

## Education

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- Computer Systems Technology Diploma** | British Columbia Institute of Technology | 2023 – 2026 est.
- Bachelor of Arts Degree, Major in Psychology** | University of British Columbia | 2017 – 2022

## Technical Skills

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**Languages:** Java, Python, C, TypeScript, JavaScript, Swift, Bash, PowerShell, Lua, MySQL, HTML/CSS, SCSS  
**Frameworks:** Spring, JUnit, Angular, React, React Native, Express, MongoDB, Astro.js, JavaFX, LibGdx, SwiftUI  
**Developer Tools:** Azure, Linux, UNIX Terminal, Git, GitHub, Netlify, Firebase, VSCode, JetBrains IDEs, Vim

## Awards

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BCIT Computing Academic Award - CGPA: 4.00, QDS Hacks 2024 Finalist