

Jonathan Hu

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EDUCATION

- **Cornell University** **GPA: n/a**
Master of Engineering - Computer Science *Aug 2023 - Dec 2024*
- **University of British Columbia** **GPA: 4.0**
Bachelor of Commerce - Combined Major in Computer Science and Business *Sep 2020 - May 2023*
 - **Ranked** 5th/908 students in faculty (top 0.5%), first student in program history to graduate in just 3 years
 - **Courses:** Machine Learning, Artificial Intelligence, Project Management, Relational Databases, Networking, Algorithms and Data Structures, Concurrent Programming, Distributed Computing, Computer Systems
 - **Awards:** Dean's Honour List, Outstanding Student Entrance Scholarship (\$20,000), 2 x Sauder School of Business Scholarship (\$10,000), 2 x Trek Excellence Scholarship (\$4,000), Naomi Grigg Scholarship (\$955)

EXPERIENCE

- **Amazon Web Services** [↗](#) Vancouver, Canada
Software Development Engineer Intern *Apr 2023 - Aug 2023*
 - Spearheaded the externalization of workflow dashboards on the Business Process Orchestrator platform, amplifying service visibility for 14 AWS internal teams
 - Executed a strategic redesign of the wiki page hosting dashboards and shifted from the outdated LPT infrastructure to CDK infrastructure, facilitating automatic pipeline deployment and improving system efficiency
 - Architected and implemented an enhanced workflow dashboard by adding a library package, which enabled clients to incorporate custom metrics, leading to a 100% increase in client custom metric use beyond standard AWS service metrics
- **University of British Columbia** [↗](#) Vancouver, Canada
Lead Teaching Assistant *Dec 2020 - May 2023*
 - Taught introductory algorithms, software engineering, and computer systems courses in Racket, Java, Typescript, and C
 - Refined lab material and received 100% favorable student rating across 12+ sections
 - Cultivated department's instructional team, training 80+ new teaching assistants per term
- **Shenzhen Youpin Cosmetics Tools Co., Ltd.** [↗](#) Shenzhen, China
Software Engineer (Contract Part-Time) *Jan 2022 - Jul 2022*
 - Negotiated and executed on \$12,000 contract to build and deploy inventory app with Java and MySQL
 - Improved inventory turnover rate by 25% across 7 different product lines and 8 types of raw materials
 - Enhanced inventory accuracy rate by 10% (85% to 95%) and reduced labor hours by 50% (50 to 25 hours) by centralizing inventory management across 4 departments

PROJECTS

- **Job Central - modelled after UBC Co-op dashboard, query engine for recruiters and applicants** [↗](#) : Created REST endpoints with Spark framework that executed CRUD queries via Oracle JDBC; led team of three to build full-stack query app using PostgreSQL, Java, and React. Integrated filtering by company, location, salary for applicants to effortlessly find their desired positions (Apr '22)
- **University Blueprint - course logistics web app, supports course analysis and planning for staff** [↗](#) : Adopted test-driven agile development methodologies to build full-stack web app over 8 one-week sprints. Maintained datasets locally with Node.js fs; parsed data zip files with JSZip and HTML files with Parse5; developed EBNF syntax that facilitates trend analysis and course planning; managed packages with Yarn. Utilized Mocha and Chai frameworks for testing and achieved 100% test coverage for 250+ tests performed. (Jan '22)
- **Pomodoro Study - personal checklist and web timer application** [↗](#) : Developed GUI application in Java with Swing, added music components using AudioInputStream; incorporated persistent data storage to store incomplete checklist items (May '21)

LEADERSHIP EXPERIENCE

- **Cars and Hoops Foundation** [↗](#) Vancouver, Canada
Vice President of Operations *Nov 2021 - Present*
 - Amplified fundraising efforts, raised over \$200,000 for Canuck Place Children's Hospice as part of a dedicated team
 - Facilitated strategic sponsorship outreach, forging successful partnerships with multinational companies including Lucid, Ledcor, ASPAC Developments, National Bank of Canada, and others
- **Varsity Basketball** Richmond, Canada
BC Regional MVP 2020, Richmond City League All-Star 2020 *Sep 2015 - Present*

SKILLS SUMMARY

- **Languages:** Python, Java, Javascript, HTML, CSS, Typescript, C, C++, SQL, R, Racket
- **Technologies:** Node.js, React, Spark, Java Spring, Express, MySQL, PostgreSQL, AWS, React Native, Chai, Git
- **Soft Skills:** Leadership, Design, Project Management, Writing, Business Presentation, Teamwork