

Hriday Buddhdev

hriday2004@outlook.com

<https://github.com/hriday330>

<https://www.linkedin.com/in/hriday-buddhdev-127a74202/>

EDUCATION

3rd year Bachelor of Science, Major in Computer Science Sep 2021- May 2026

University of British Columbia. GPA: 88.7%, Dean's Honors List.

Relevant coursework: Machine Learning & Data Mining (CPSC 340), Intro Software Engineering (CPSC 310), Intermediate Algorithms (CPSC 320), Applied Linear Algebra (MATH 307), Intro Probability (MATH 302)

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C++, C, Golang,

Frameworks: React.js, Redux.js, Next.js, Node.js, Express.js, MongoDB, MySQL, Pytorch, Sklearn, Pandas, Numpy,

Tools: JIRA, Docker, Vercel, Git, AWS, Confluence, Webpack, Babel, Cypress, React Testing Library, Storybook, Github Actions

TECHNICAL WORK EXPERIENCE

Software Engineer Intern @ Samsung Sept 2024 - Present, Vancouver

- Improved CI pipeline for Samsung's admin dashboard front-end by developing a Cypress Github Actions workflow, leading to an **80% decrease in FE regressions**
- Implemented robust and flexible components using React + Typescript + Tailwind for **UPC**, Samsung's internal UI library, improving UI/UX consistency for 5 Samsung service portals and **decreasing code duplication by 65%**
- Wrote 27 component tests for UPC using Cypress + Chai.js, increasing **edge-case identification across UI library by 50%**
- Upgraded a large **micro-frontend** project to React 18 with Webpack Module Federation, **reducing FE load times by 2s**
- Researched and implemented FE error monitoring using Sentry, **identifying 60% more app performance bottlenecks**

Web Developer Intern @ Celayix Jan 2023 - Aug 2023, Vancouver

- Developed responsive UIs for the **'Payroll & Billing Export'** and **'Code Maintenance'** migration projects, using React.js and Redux Form in an Agile environment, resulting in a 60% increase in client satisfaction
- Introduced new query parameters to Celayix API calls, leading to over 70% faster export time for Celayix' largest clients
- Developed front-end for **Expiring Qualifications** notifications feature and deployed to App and Play Store using Cordova
- Actively participated in an Agile team, following trunk-based development practices and conducting feature demos

TECHNICAL EXTRACURRICULARS

Tech Lead @ UBC Launchpad Mar 2024 - Present, Vancouver

- Managing a team of 6 developers for a year-long SaaS project to address localization challenges in Python and JS projects
- Implemented a localization service in Django and exposed a PIP package to allow project-specific caching of translations
- Integrated Google and Azure AI translate with options to manually override translations in specific cases
- Applied **mutex-lock pattern** to prevent concurrency issues with multiple micro-services jointly modifying translations
- Designed code review process, promoting adherence to API design quality and 95%+ documentation and test coverage
- Introduced Scrum methodologies, leading to a **65% increase in developer efficiency**
- Designed technical assessment for Launchpad FE candidates, and assessed topics such as React Context and SSR

Hackathon Mentor @ HackCamp 2024 Nov 10th, 2024, Vancouver

- Mentored over 250 first-time hackers with React and API design with Typescript, and nominated for 'Most Helpful Mentor'
- Judged 15 projects on future startup viability and product execution and gave detailed feedback on Devpost submissions

Software Developer @ UBC Launchpad Sept 2023 - Mar 2024, Vancouver

- Designed a RESTful API for BlueNav back-end to support grade upload, transcript parsing and results, resulting in a 75% efficiency increase when calculating grade requirements
- Implemented a POST endpoint using Gin and AWS Textract to parse transcripts and return a modifiable list of courses, for the UBC BlueNav project
- Optimized and implemented algorithm to compute pending degree requirements in $O(\text{number of completed courses})$, resulting in 55% time load time decrease for the results endpoint

TECHNICAL PROJECTS

GraphAlive - A graph simulation tool Mar-2024 - present

- Developed a responsive graph algorithm simulation tool using React + Tailwind and D3 for data visualizations
- Implemented a RESTful API to support persistent graph simulations using complex queries with MySQL and Express
- Integrated OAuth 2.0 allowing users to access saved simulations with their Google Account, and deployed app on Vercel

LikeMyListing - Rating Analyzer for Airbnb Listings Nov 2023-Dec 2023

- Developed an ensemble model with Random Forest and Gradient-Boosted Regression using Scikit-learn
- Conducted feature engineering using NLTK-Vader for sentiment analysis and achieved 85% test accuracy on Airbnb ratings
- Formulated explanations for test predictions using SHAP force-plots

EXTRACURRICULAR EXPERIENCE

Indian Classical Music- Student & Performer Dec 2008- Present

- Studied *Tabla* and *Sarode* with world-renowned teachers, performing in Canada, India, US and UK
- Featured as part of **CBC's '30 hot Canadian classical musicians under 30'** article in 2023
- Conducted workshops for Vancouver Symphony Orchestra, introducing *Sarode* to new audiences