

Devstutya Pandey

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science; GPA: 3.8

Kelowna, BC

Expected Sept. 2025

EXPERIENCE

Software Development Intern

May 2024 – Aug 2024

Proshort, India

- Architected and developed a comprehensive monitoring system using Grafana for querying and visualizing 10+ system health metrics and KPIs in real-time.
- Built and Deployed RESTful APIs using FastAPI which improved data throughput and backend integration efficiency by 28%.
- Spearheaded a project integrating Notion and Confluence into the Proshort App, leading to increased customer engagement by enabling seamless access to internal documentation tools.

Web Developer

May 2023 – May 2024

Faculty of Science, The University of British Columbia, Canada

- Led a collaborative project with a team of students and my computer science professor to develop an improved Course Planner for UBC Okanagan.
- Developed a scalable MySQL database storing 1000+ course records and prerequisites, which enhanced data reliability and query performance.
- Designed and created a performant React.js interface with responsive layouts and optimized UX, which cut user task time by half.

Database Development Intern

Dec 2019 – Jan 2020

Greatship Global, India

- Designed and implemented a robust data foundation for the organization's vessel management system that handled 10,000+ records, gaining proficiency in Database Management System (DBMS) and SQL.
- Optimized SQL queries and schema structure in MySQL, reducing query response times by up to 30%.

PROJECTS

Image Aesthetics Webapp | Next.js, Flask, Python, TensorFlow, Playwright

Sept. 2024 – Apr. 2025

- Led a team using Agile methodologies to develop a full-stack AI-powered web application for image evaluation, leveraging TensorFlow models to assess the aesthetic quality of 1,000+ user-submitted images.
- Engineered a scalable frontend using Next.js and backend using Python and Flask APIs which enabled real-time survey interaction and model prediction.
- Trained CNN models with 80% accuracy and deployed a Dockerized system with Playwright-tested services, which reduced development overhead by 40%.

E-Learning Platform (Discourse) | JavaScript, Next.js, Firebase, GitHub Actions

Jan. 2024 – Apr. 2024

- Spearheaded a 4-person team to build an education portal replicating key features of Canvas.
- Implemented real-time course progress tracking using Firebase, enabling immediate student feedback and increasing course completion rates by 15%.
- Validated application performance and reliability through end-to-end testing using Jest, Vitest, and Playwright; automated CI/CD pipeline via GitHub Actions, achieving 95% code coverage.

TECHNICAL SKILLS

Programming Languages: Python (Pandas, NumPy, Matplotlib), C, C++, Java

Web Development: React.js, Next.js, Node.js, HTML5, CSS3, JavaScript, TypeScript, PHP

Databases: MySQL, PostgreSQL, Firebase, SQLite, NoSQL

Tools: Docker, GitHub Actions, GCP, Testing (Jest, Vitest, Playwright, Cypress), Tableau, R, FastAPI