Devstutya Pandey

+1 (236) 338-1844 | Devstutyapandey@gmail.com | linkedin.com/in/devstutyapandey | github.com/Devstutya

EDUCATION

University of British Columbia — Kelowna, BC
Bachelor of Science in Computer Science, Minor in Data Science — *Nov. 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 – April 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 over 500 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 over 1000 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, C, C++, Java, JavaScript, TypeScript, SQL
Web Development: React, Next.js, Vite.js, Node.js, PHP, FastAPI, Django, PostgreSQL, Firebase, MongoDB, Redis
Machine Learning/AI: PyTorch, TensorFlow, Scikit-learn, Hugging Face, LangChain, OpenAI API
Tools: Docker, GitHub Actions(CI/CD), GCP, Testing (Jest, Vitest, Playwright, Cypress), Tableau, R, MATLAB