NISHCHINT DHAWAN

Victoria, BC, Canada | +1-250-588-8504 | nishchint34@gmail.com | github.com/NishchintDhawan

Education

- **Bachelor of Engineering - Software Engineering** (GPA: 7.01/9.00) — Apr 2024
  University of Victoria – Victoria, BC

- **Network Security certification** – Cisco — July 2024
  Coursera

Work Experience

Software Engineer, Co-op — Sept 2023 – Apr 2024 | Jan 2023 - April 2023
Tradable Bits – Vancouver, BC — Python, Flask, PostgreSQL, Underscore.js**,** Docker, Celery, AWS

- Developed an access control tool for MLSE for Toronto Maple Leafs Playoff game used by **300k+ fans for 2500 passes.**
- **Optimized** storage for 1M+ images using automated **AWS** S3 backup and sync, reducing costs and improving data security.
- **Boosted** emails management tool **performance** by 70% using lazy loading and SQL optimizations, improving user experience and productivity.
- Developed a PostgreSQL data model tool to manage patches and conflicts, **cutting merge times** for development team **by 50%.**

Web Developer, Part-time — Sept 2022 – Dec 2022
Web Developer, Co-op — Jan 2022 - Aug 2022
ACD Systems International Inc. – Victoria, BC — React, PHP, AWS, Azure AD, Symfony, MySQL

- **Integrated** the company's web platform with **Azure AD** to implement social login features, boosting **daily active users by 15%.**
- Boosted **security** of product download links on the platform by **migrating** to a private **AWS S3** bucket and using pre-signed URLs.
- Resolved bugs in the email sending system using **LAMP stack** used by marketing team to send **1M+ emails every 2 weeks.**
- Researched, designed, and implemented an in-house web application using React, MySQL, PHP and NDAX REST API, for cryptocurrency trading with **2-factor authentication using TOTP**.

Virtual Reality Developer, Co-op — Jan 2019 - Aug 2019
National Research Council of Canada – Victoria, BC — C#, Unity3D, Java, JavaScript, JUnit, EasyMock, Selenium

- **Optimized** the performance of a Virtual Visitor Centre VR app, boosting the frame rate from **20 to 60 FPS** using C# and Unity3D.
- Developed **GDPR compliance** features for the Canadian Astronomy Data Centre web portal using Java servlets.
- Developed automated browser and unit tests for frontend and backend, maintaining high system reliability.

Projects

Reliable UDP Server (github.com/Reliable_UDP_Server)
- Developed 3-way handshake and error-control using retransmission for the UDP protocol to increase its reliability using Python.

Ryden
- Designed and developed a ride sharing mobile app using **React Native, TypeScript, Nest.js, PostgreSQL**, Postman and Heroku.
- Integrated a **CI/CD pipeline** using **GitHub Actions**, automating deployments for a faster testing process, and reducing time in development and testing.

Froogle (devpost.com/software/froogle)
- Created a SMS based mobile search engine in a team of 4 people as the submission for nwHacks 2020 and placed 16/145 winning the **Wolfram Award**.

Skills

Languages: Python, JavaScript, Java, PHP, C#, TypeScript, C, Golang
Tools & Networking: Linux, AWS, Azure AD, TCP/IP, UDP, Wireshark
Frameworks: React.js, Symfony, Twig, React Native, Flask, Next.js, Nest.js, Underscore.js, pytest, JUnit, Selenium
Databases: MySQL, PostgreSQL, Firebase, MongoDB

Awards

- 1st Place – Western Engineering Competition, 2023 (Programming).
- 1st Place – UVic Engineering Competition Summer 2022 (Programming).