

HARPREET DUBB

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EDUCATION

Simon Fraser University

Bachelor of Science in Computer Science

September 2019 – August 2025 (Expected)

Burnaby, BC

- SFU Grace Hopper Conference Grant Recipient (2024)

WORK EXPERIENCE

Software Developer Intern

January – April 2024

Communications Research Centre (ISED)

Ottawa, ON

- Developed a **data management platform** to centralize datasets, significantly improving data discoverability and maintenance for researchers.
- Created automated pipelines with **AWS ImageBuilder** and **Python**, seamlessly integrating with **CI/CD** workflows.
- Optimized cloud infrastructure by managing **AWS CDK** deployment (**IAM**, **S3**, **Secrets Manager**, **Lambda**, etc.), significantly enhancing scalability and security.

Computer Programming Instructor

March – June 2023

Innovation Works Foundation

Coquitlam, BC

- Developed and taught a **Python** curriculum for **100+ students** in grades 2-7, igniting interest in tech and maintaining a **95% retention rate** with interactive learning approaches.
- Managed all program operations, including administrative tasks, parental communication, and homework assessment.

Software Developer Intern

January – August 2022

Boeing

Richmond, BC

- Worked in the Toolbox (**SAFe Scrum**) team to build a web application for distributing, editing, and displaying airplane documentation, used by **350+ airlines worldwide**.
- Developed and maintained **E2E/Smoke testing** with **Java** using **JUnit** and **Selenium**, integrated into the **CI/CD pipeline**, resulting in a **45% improvement** in software functionality and usability.
- Achieved a **40% reduction** in reporting time by automating Excel data collection and visualization of key metrics using **Power BI** (**ETL pipelines**, **Power Query M functions**, **DAX formulas**) and live data from **Azure DevOps**.

PROJECTS

SFU Blueprint - Reel Youth | *React.js, Next.js, Tailwind, TypeScript, Firebase, Docker*

- Revamped a non-profit's website to enhance program sign-ups, showcase 120+ films, and boost its online presence.

Deny and Conquer | *Java, Sockets, TCP, Java Swing*

- Developed a real-time multiplayer game with TCP socket communication and multi-threaded server, enabling synchronized gameplay and responsive grid-based interactions.

OptiRouteDining | *Python, OpenStreetMap, Spark, OSMnx, Scikit-learn, Folium, Pandas*

- Developed a CLI tool that provides optimized walking routes to top-rated restaurants, improving travel efficiency for users by leveraging data processing and route optimization techniques.

WeCare | *Kotlin, Firebase, Jetpack Compose, Google Places API, Android Studio*

- Developed a mobile application providing mental health services, including diary entries, music therapy, appointment booking, and health surveys.

TECHNICAL KNOWLEDGE

Languages: Python, Java, JavaScript, HTML, CSS, SQL

Tools/ Technologies: Amazon Web Services, GitHub, Power BI, Microsoft Azure, Selenium, Jira

LEADERSHIP

VP of Product Management

May 2024 – Present

SFU Blueprint

Burnaby, BC

- Conducted market and user research with **100+ participants**, identifying key pain points and informing a product roadmap that met **90% of user needs**, enhancing market positioning.
- Led a product management team of **5**, leveraging Notion for task distribution, boosting productivity by **35%**.

President

May 2022 – April 2024

Women in Computing Science SFU

Burnaby, BC

- Managed a team of **12**, executing **4+ social and sponsored events per month**, resulting in a **50% increase** in community engagement among **500+ active members**.