

# ARCHIT VERMA

+1 778-554-2705

<https://www.linkedin.com/in/archit-verma-b924a8209/>

<http://archit-v.web.app>

<https://github.com/Architv27> [archit.sfu@gmail.com](mailto:archit.sfu@gmail.com)

Apt #122F, 600 Smith Avenue, Coquitlam, BC, V3J 2W4

## EDUCATION

### SIMON FRASER UNIVERSITY

Jan 2019 - Present

- Bachelor of Applied Science in Computing Science.
- Graduated in August 2024

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, Java, Python, JavaScript, HTML, CSS, Typescript, React, Assembly language (x86), Haskell, Kotlin, XML, Bash, R.
- **Concepts:** OOP, A\*, BFS, DFS, MDP, Data Structures, Constraint Problems, Binary Tree, Threads, Semantics, Android Development, Web Development, Computer vision and graphics, Computational Data Science, Cybersecurity, Big Data, Multimedia Systems.
- **Applications:** Git, Figma, Balsamiq, Android Studio, Docker, Nginx, Postman, Visual Code, MATLAB, Linux environment (Debian, Ubuntu, etc.), Windows, MacOS, Vim, Firebase, ArcGIS, Terraform, OpenAI.
- **Hardware:** Arduino, Raspberry Pi4, Marlin Firmware, Klipper Firmware.
- **Framework:** Express.js, Node.js, Django, Vue.js, Next.js, Jest, Junit, Spark.

## PROFESSIONAL EXPERIENCE

### Experfy Inc. WESTBOROUGH, MA

#### • FULL-STACK SOFTWARE DEVELOPER (PART-TIME)

June 2023 - Present

- Contributed to the development of a cloud-based HR platform with Applicant Tracking System (ATS) and Candidate Relationship Management (CRM) suite, using **React**, **Node.js**, and **Express.js** for a scalable architecture. Designed and implemented microservices for job postings, candidate management, and interview scheduling with **RESTful APIs**. Optimized backend performance by integrating **Redis**, reducing response times by 35%. Integrated **AWS**, **Docker**, and **Kubernetes** for automated deployments, cutting deployment times by 30%. Applied **Terraform** for infrastructure scaling, increasing system capacity by 40%. Ensured compliance with **GDPR/CCPA** through secure authentication with **OAuth 2.0** and **JWT**. Assisted in migrating legacy systems to microservices, improving system resilience and scalability. Collaborated with DevOps to enhance the **CI/CD** pipeline.

### Rapidia Tech Inc. VANCOUVER, BC

#### • SOFTWARE ENGINEER (PART-TIME)

Jan 2023 - May 2023

- Upgraded Rapidia Host V3 **REST APIs** to **OPEN APIs**, enhancing efficiency and integrated Rapidia Slicer with **Cura**. Developed a **Python AI** reducing paste wastage by 70% and improving print quality. Played a key role in project planning and documentation.

#### • SOFTWARE ENGINEER (CO-OP)

Jan 2022 - Dec 2022

- As a **Full Stack Developer** on the **Rapidia Host V3** project, I built a software platform for **Raspberry Pi 4** using **Typescript**, **Express.js**, and **Marlin Firmware** enabling **3D printing management** and **CNC control**. I implemented **real-time communication**, **G-code parsing**, **3D rendering with Three.js**, and **managed GPIO**, **Wi-Fi**, and **state management**. I also designed UIs with **MUI**, developed **RESTful APIs**, and ensured reliability through **Docker**, **Nginx**, monitoring tools, and testing.

## TECHNICAL PROJECTS

- **DishCovery (Food Recognition and Recipe Recommender App)** MAR 2024 - MAR 2024
  - In CMPT 419 (Human and Data-Centric AI), I collaborated with two colleagues to develop **DishCovery**, a web app using **Django**, **TensorFlow**, **CNN**, and **ResNet**. We trained a food recognition AI on dataset from **Roboflow** to provide recipes based on detected ingredients and integrated **GPT-4 APIs** for personalized recommendations.
  - Project on GitHub: <https://github.com/sbail01/fruit-app>
- **SIGN LANGUAGE LEARNING APP (FLUENT HANDS)** NOV 2023 - DEC 2023
  - Developed an **Android** app in **Kotlin** for ASL learning, using **Mediapipe** and **XML**, login activity uses **firebase APIs**. In a team of five, I created the camera activity, learning/result pages, and integrated **Mediapipe** for gesture recognition.
  - Project on GitHub: [group-18] ([Project Link](#)). Website: [Link](#)

## INTERESTS

- Computer Vision, AR/VR Immersive Game, Development, Cultural Exploration Travel