ARYAMAN SINGH

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LinkedIn — *GitHub*

EDUCATION

Computer Engineering (BASc), University of Waterloo (GPA: 3.9)   **Sep 2019 – Apr 2024**

Awards: 4x Term Dean's Honors List, 2x Engineering International Scholarship, Konrad Digital Innovation Scholarship
Ontario Professional Engineer Scholarship, President's Scholarship, Jim Kalbfleisch Award, SFF Programming Competition Award

WORK EXPERIENCE

Tesla - Firmware Build & Infrastructure (Co-op) – Palo Alto, CA   **Sep 2023 – Present**

- Developing a graph merge tree utility to visualize interconnected branches and detect merge conflicts between software releases using **TypeScript**, **Python** and the **GitHub Apps** framework.

Tesla - Firmware Build & Infrastructure (Co-op) – Palo Alto, CA   **Jan 2023 – Apr 2023**

- Overhauled firmware infrastructure by enhancing CI builds configurability and performance through JSON Support using **Python, Ruby on Rails** and **Jenkins,** allowing teams at Tesla to configure and manage their own build processes.
- Implemented specific build exclusions in **Python** to allow developers to specify vehicle components to be built per build.

Relay Platform - Software Developer (Co-op) – Toronto, ON   **Jan 2022 - Apr 2022**

- Engineered a **data-ingestion platform** for insurance firms using **React** (**TypeScript**) and styled-components to reduce onboarding time by increasing ingestion rate of new insurance applications by **100x.**
- Created an **AWS Lambda pipeline** to sanitize & analyze insurance data using **NodeJS** & **Terraform** to lower costs for clients.

Versett - Full Stack Product Engineer (Co-op) – Toronto, ON   **May 2021 – Dec 2021**

- Architected visual components for a medical mobility device company using **React, GraphQL** and **Strapi,** working autonomously with the designers and client to ensure accessibility across the app. *[motioncares.ca]*
- Overhauled UI, database, and authentication features for a digital-only insurance product using **Node.js and React,** launching the app in Barbados to **1000+ customers**. *[almi.bb]*

Telus - Software Developer (Co-op) – Cambridge, ON   **Sep 2020 – Dec 2020**

- Spearheaded implementations of new frameworks and functional testing using **Python** (Robot Framework), **reducing regression testing time** for new releases by **50%** (from 2 weeks to 1 week).
- Automated nightly testing suites on **Jenkins** to support dev team with stability issues in 3 separate EMR applications.

PointClickCare - Software Engineer (Co-op) – Mississauga, ON   **Jan 2020 – Apr 2020**

- Designed a load testing application using Apache JMeter for a **Microsoft Azure** pipeline, responsible for ingesting and storing changes made to patient health records and prescriptions.
- Implemented 50+ automation tests and bug fixes using **Java**, increasing automation coverage of the application by **5 times.**

PROJECTS

AeView, HackRx '23 - *github.com/jx-zheng/aeview*   **Jul 2023**

- Created an AR mobile app that allows doctors to virtually landmark a patient's body for drug administration, using **Apple ARKit, RealityKit** and **SwiftUI**; won **1st place** at hackathon and a $5000 cash prize.

HeimWallet, HackThe6ix - *devpost.com/software/heimwallet*   **Aug 2022**

- Created a digital wallet and payment verification app for Alzheimer's patients using **React Native** and **Python Flask** with **Twilio** notification and **Google Maps API** location support; won **1st place** at the hackathon out of 70+ submissions.

SKILLS

Languages: JavaScript, TypeScript, Python, Ruby, Java, C++, C, HTML, CSS
Tools: React, NodeJS, Rails, GraphQL, Azure, GCP, AWS, MySQL, Postgres, Jenkins, Terraform, Slurm, Unix, Git