✉ s4pai@uwaterloo.ca

☎ (647) 915-922

🔗 Personal Website

SPARSH PAI

Skills Summary

- **Languages**: Java, Python, C++, SQL (Basic)
- **Technologies**: Android, Git Version Control, TensorFlow, NumPy, Pandas, Matplotlib, AWS Lambda (Basic)

Work Experience

Software Engineering Intern
Toronto, ON

Dimensional Interactive (Startup) [OS: MacOS, Swift, Git Version Control, Firebase]
Sept 2020 – Current

- Architected major UX/UI features
- Allowed for **50%** increase in user information retrieval rate
- Heavily used **Protocols and Delegates** design pattern
- Extensively practiced MVC architecture
- Implemented **7+** features from **concept** through **deployment**
- Allowed for data persistence using pre-configured **Firebase** backend and **local data storage**

Full Stack Android Developer
Guelph, ON

Revyoo.me Inc (Startup) [OS: Ubuntu, Java, Git Version Control, SQL, AWS Lambda, Node.js]
Jan 2020 – Apr 2020

- Integrated Google Places TextSearch API to enable proximity-based search and autocomplete
- Decreased user search time by **250%**, allowed for visibility of **500%** more locations on average
- Removed **25+** deprecation issues and took code base from non-functional to functional
- Independently led development and added **5+** crucial features

Projects

InfantXpert [Python, TensorFlow, Git Version Control]
Feb 2020

- ➢ *McMaster Delta Hacks VI – **1st Place Overall, 150+** Competitors*
- Led development of a deep learning neural network to detect likelihood of infant requiring medical attention
- Achieved **~ 90%** training accuracy
- Played a key role in the ideation and presentation periods

HealthMod [Java, Android, TensorFlow, Git Version Control]
Jan 2020

- Used the AWS ML libraries to create a model that can detect a user's susceptibility to heart disease
- Mentored the development of an Android application to enter user data
- Assisted in creation of a MySQL server to process inputted data

MedLife [Java, Android, OpenCV]
Jan 2019

- ➢ *HOSA Medical Innovations Original Category **National Qualifier, 200+** Competitors*
- Created an Android application to detect infections in the ear
- Assisted in OpenCV software development

Leadership

Waterloo App Development Team Co-Founder
Sep 2019 – Dec 2020

- Created a club as a first-year student focused on developing Android and IOS apps
- Managed a group of **30+** students

Education

University of Waterloo
Waterloo, ON

BASc Computer Engineering
Sep 2019 – Present