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🔗 [Personal Website](#)

SPARSH PAI

Skills Summary

- **Languages:** Java, Python, C++, Swift, SQL
 - **Technologies:** Android, IOS, Git Version Control, AWS, Firebase, SQLite DB, MySQL, TensorFlow, NumPy, Pandas, Matplotlib
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Work Experience

IOS Software Engineering Intern

Toronto, ON

Dimensional Interactive (Startup) [OS: MacOS, Xcode, Swift, Git Version Control, Firebase, *Agile Methodology*]

Sept 2020 – Current

- Working on the implementation of a **psychometrics engine** for an **IOS** app
- Architected major **UX/UI** features
- Allowed for upwards of **50%** increase in **information visibility** through custom **scroll-view deployment**
- Heavily used **Protocols and Delegates** design pattern
- Implemented **10+** 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 (Linux), Android Studio, Java, Git Version Control, SQL, AWS Lambda, Node.js]

Jan 2020 – Apr 2020

- Worked on developing a cross-over **Android** app between **Yelp** and **Google Maps**
 - 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 **UX/UI** features
 - **Managed** project **budget** and development **deadlines**
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Management & Leadership

Waterloo App Development Team Co-Founder

Sept 2019 – Dec 2019

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

HOSA (Health Occupations Students of America) Chapter President

Sept 2018 – Jun 2019

- **Led** and **managed** a group of **30+** students
- Increased National qualifications by **250%** from the previous year
- Ensured **harmonization** of the executive board in terms of **scheduled events** and **work timelines**
- **Overlooked** team budget and monthly expenses (**\$2000+**)
- **Facilitated** smooth interactions between **different** sectors (ex. Finance, Marketing, Training, etc.)

Student Ambassadors Head Executive

Sept 2017 – Jun 2019

- Led a team of **40+** members
 - Planned and **managed** events for **400+** students
 - **Ensured** strong **communication** lines between students and supervisors
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Projects

InfantXpert [Python, TensorFlow, Git Version Control]

Feb 2020

- *McMaster Delta Hacks VI – 1st Place Overall, 250+ Competitors*
- **Managed** and **led** development of a deep learning neural network to detect likelihood of infant requiring medical attention
- **Coordinated** simultaneous development between sub-teams (Back-end, Front-end, Machine Learning)
- Achieved ~ **90%** training accuracy

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

Jan 2020

- *StarterHacks Submission, 150+ Competitors*
- 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]

Mar 2019

- *HOSA Medical Innovations Original Category **National Qualifier**, 250+ Competitors*
- **Overlooked** development of an Android application to detect infections in the ear
- Assisted in OpenCV software development

Education

University of Waterloo

BASc Computer Engineering

Waterloo, ON

Sep 2019 – Apr 2024