Areeb **Hyder**

Computer Engineering Student

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TECHNICAL STRENGTHS

Languages: Java, C/C++, C#, Python, JavaScript, PHP, SQL, HTML/CSS, RISC-V, VHDL
Frameworks / Libraries: Spring, Node.js, Angular.js, .Net Core, MongoDB, MySQL, PyTorch, TensorFlow
Tools: Docker, Heroku, TeamCity, Git, Perforce, PostMan

WORK EXPERIENCE

AlertDriving   May 2019 - August 2019
Software Engineering Intern - Backend Development
- Created a backend **API** used to generate and send **10,000+** emails per day, improving delivery times by **23%**
- Enhanced security by integrating **Keycloak** as an authentication service, reducing fraudulent logins by **11%**
- Designed and deployed **micro-services** that manage user creation via batch files, autonomously powering profile set up, licence allocation and billing procedures; effectively reducing the need for manual initialization.
- Improved scalability by redirecting client traffic using a CDN, saving **$700** in annual server costs.

OpenText   September 2018 - December 2018
Software Engineering Intern - Tools Development
- Analyzed queries to reduce bottlenecks by restructuring and improving database design, lowering run times by **7%**
- Eliminated **93%** of server allocation conflicts by creating a web based booking system, used by **800+** employees
- Designed and owned a project tracking tool used by companywide managers to monitor cross-team projects
- Engineered a complete end to end framework for automated **unit testing**

Ontario Medical Association   January 2018 - April 2018
Software Engineering Intern - Full Stack Development
- Overhauled the backend architecture to improve response times by converting outdated SOAP APIs to REST APIs
- Designed and developed a data migration program, allowing clients to claim records containing their PII data
- Implemented changes to the search bar, leading to **15%** more accurate results being displayed

PROJECTS

Watonomous - *Design team building an autonomous vehicle to compete in the SAE competition*
- Collaborated in a team to research and design an object detection framework using a convolutional neural network
- Experimented with various optimizers and implementations to achieve an accuracy of **56 mAP** at **40 fps**

Jarvis - *An intelligent desktop assistant controlled via voice commands*
- Created an assistant using open source libraries that can send emails, update calendars and perform web searches
- Integrated a **neural network** to train the virtual assistant to improve its responses based on user input

Binge.Tv - *A web based application that allows users to stream movies and tv shows*
- Utilized the **MEAN** stack to create a fully functional website which lets users login and browse content
- Researched into **PayPal's API** along with other technologies to create a secure checkout for users

EDUCATION

University of Waterloo   September 2017 - Present
- Candidate for BASc in Honours Computer Engineering
- **Relevant Course Work:** Data Structures & Algorithms • Object Oriented Principles • Embedded Microprocessor Systems • Digital Computers • Introduction to Machine Learning