

SAUD NAUMANI

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LANGUAGES

- Java
- C/C++
- Python
- JavaScript/jQuery
- SQL
- HTML/CSS
- Assembly
- VHDL

TECHNOLOGIES

- Node.js
- MySQL
- AWS
- Git/SVN
- Jenkins
- Postman
- UNIX/Linux
- GDB Debugger
- TensorFlow
- Google Cloud
- Amazon Alexa
- Heroku
- MongoDB

EDUCATION

University of Waterloo
B.A.Sc Computer Engineering

Relevant Coursework

- DS & Algorithms
- Computer Architecture
- Digital Systems
- Numerical Methods

EXPERIENCE

BLACKBERRY | Software Engineering Intern - Core OS Security

Java • C • Bash • Yocto • Go

Sept 2018 - Dec 2018

- Designed, owned, and developed a Linux distribution utilizing **Yocto** as a basis for IoT devices, with a focus on **platform security**
- Developed an API in **Java** which acted as a security checkpoint, serving to heuristically validate IoT devices signatures
- Refactored the code base for **modularity**, allowing for easy integration with device manufacturers and enterprise licensees

WATONOMOUS | Autonomous Vehicle Object Detection

Python • C++ • ROS

May 2018 - Aug 2018

- Collaborated within a team to research, train, and optimize a convolution neural network, used for object detection and classification
- Employed the use of **Python** and TensorFlow to develop and train the model

METHOD:CRM | Software Engineering Intern - Automation

JavaScript • SQL • Postman • Node.js

Jan 2018 - Apr 2018

- Utilized Node.js and **MongoDB** to develop and improve an automated testing framework, successfully reducing the runtime of the test suite by 60%
- Designed and constructed automated tests for the backend infrastructure of Method's web API, written in **Node.js**
- Developed continuous integration pipeline to automatically parse and validate **XML/JSON** API responses

PROJECTS

FLUENT-AI

 devpost.com/software/fluent-ai

Express.js • Heroku • JavaScript • Google Cloud API

- Created a Conversational AI, which aids users in learning a new language
- Leveraged the power of the **Google Cloud API** for natural language processing, allowing for text-to-speech and speech-to-text functionality

WEATHER ALERT APP

Python • OpenWeatherMap API • Twilio API

- Created a functional interactive weather alert app that texts the user weather information from any location in the world
- Parsed and extracted a sizeable string of **JSON** data
- Integrated an interactive static chatbot, utilizing the **Twilio API**

SERVER-LESS CHAT APP

jQuery • Node.js • AWS

- Integrated **AWS Lambda, API Gateway, S3, and DynamoDB** in order to build a server-less chatting application
- Architected an API which allows for reading/writing data through AWS using client's browser
- Integrated DynamoDB to store registered users, and chat messages