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Savita Medlang

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EDUCATION

Case Western Reserve University
B.S. Computer Science, GPA: 3.5/4.0

Cleveland, OH
Expected Graduation: May 2019

Relevant Coursework: Java Programming, Data Structures, Algorithms, Discrete Mathematics, Statistics, Computer Networks, Computer Security, Software Engineering, Operating Systems, Game Design, Artificial Intelligence, Database Systems

Horizons Engineering Fellowship
Software engineering fellowship with coursework focused on web and mobile technologies:
JavaScript, Node, Express, React, React Native, Redux, MongoDB, SQL, HTML/CSS

San Francisco, CA
May 2018 - Aug 2018

RELEVANT EXPERIENCES

Research Assistant (C++, AutoCAD)
Duke University, Electrical & Computer Engineering Department

Durham, NC
May 2017 – Aug 2017

- Wrote **post-processing programs in CUDA C++** to manipulate images using **high performance computing** on GPU
- Created CAD models to **model** airport bags to run through a simulation studying airport security screening processes
- Used **Linux, CUDA C++, MeshMixer, Fusion360, and Microsoft Kinect**

Research Assistant (Python)
Carnegie Mellon University, Electrical & Computer Engineering Department

Pittsburgh, PA
May 2015 – Aug 2015

- Tested energy loss with an energy harvesting computer through different obstacles and between different distances
- Used **Python, Microsoft Excel** to collect, sort, and analyze large datasets

TEALS Co-Teacher (Snap!, Python)
Aim for 'Computer Science in every high school', Glenville High School

Cleveland, OH
July 2018 – Present

- Design lesson plans to introduce computer science to beginners, using Snap! and progressing to Python
- Teach lessons twice/week to high school students taking Introduction to Computer Science

University Teaching Assistant
Professional Communications for Engineers, Case Western Reserve University

Cleveland, OH
Jan 2018 – Present

- Host weekly recitations focused on improving written and oral communication skills

FEATURED TECHNICAL PROJECTS

Backend Engineer (JavaScript, Node.js, Natural Language Processing, APIs), Natural Language SchedulerBot

July 2018

- Built Google Calendar meeting/reminder scheduler using Slack, Google Calendar and DialogFlow **APIs**
- Added **natural language processing** capability to slack bot by training DialogFlow to recognize keywords from input
- Used **Google Calendar API** to schedule only available timeslots for meetings

Fullstack Engineer (Node.js, React Native), Head Smart

July 2018

- Created backend **RESTful API**
- App allows users to track daily mental health and provide in-app suggestions/activities to improve daily health
- Wrote **machine learning** algorithms to provide more personal/effective suggestions over time
- Created fluid user interface using **React Native, Expo and JavaScript**

Fullstack Engineer (Node.js, React), Couldn't Share Less

July 2018

- Desktop application that allows real-time collaboration to edit/share documents
- Created backend **RESTful API** to allow registration, login, saving documents in a **MongoDB** database, and more
- Used **socket.io** to enable real-time connection between users on a shared document
- Built frontend framework using **React, MaterialUI, DraftJS, and Electron**

Backend Engineer (JavaScript, Node.js), SocCar

Jan 2018-May 2018

- Created backend **RESTful API**
- Physical car soccer game which users control a miniature car through controls on our website
- Used **socket.io** to ensure real-time dataflow from web to car

Backend Engineer (Scheme, Java), Java Interpreter

Jan 2018-May 2018

- Built an **interpreter** for Java code using Scheme, including try/catch blocks, loops, classes, inheritance
- Used a recursive strategy to continue updating the variable states and keeping track of scopes

SKILLS & TECHNOLOGIES

Languages: JavaScript, Java, C, Python, Scheme, Prolog, Haskell, HTML, CSS

Software: jQuery, React, Redux, React Native, Node.js, Express.js, SQL, NoSQL, MongoDB, Matlab, Autodesk Fusion360

Tooling: Webpack, Heroku, Git, Linux, Unix