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Savita Medlang

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EDUCATION

University of Southern California — **Los Angeles, CA**
M.S. Computer Science, GPA: 3.5/4.0 — *Expected Graduation: Fall 2020*

Relevant Coursework: Analysis of Algorithms, Foundations of AI, Database Systems, Natural Language Processing

Case Western Reserve University — **Cleveland, OH**
B.S. Computer Science, GPA: 3.4/4.0 — *Fall 2015 - Spring 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 — **San Francisco, CA**
Software engineering fellowship with coursework focused on web and mobile technologies: — *Summer 2018*
JavaScript, Node, Express, React, React Native, Redux, MongoDB, SQL, HTML/CSS

RELEVANT EXPERIENCES

Software Engineering Intern (Python, React) — **Durham, NC**
Genesys — *Summer 2019 – Present*
- Designed **Electron** desktop application to help developers maintain and create new AWS tokens
- Bug fixes and **Flask** UI improvements on Genesys internal application, Scrooge
- Completed **Google Chrome extension** to improve the Genesys chat product, PureCloud

TEALS Volunteer Teaching Assistant — **Cleveland, OH**
Aim for 'Computer Science in every high school', Glenville High School — *Fall 2018 - Spring 2019*
- Established lesson plans to introduce computer science to beginners, using Snap! and progressing to Python
- Taught lessons twice/week to high school students taking Introduction to Computer Science

Software Engineer (React) — *Fall 2018 - Present*
Ergbot, a startup focused on logging workout data from erg machines for rowing teams
- Designed home page and add/remove player page for website

Research Assistant (C++, AutoCAD) — **Durham, NC**
Duke University, Electrical & Computer Engineering Department — *Summer 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
- **Linux, CUDA C++,** MeshMixer, Fusion360, and Microsoft Kinect

Research Assistant (Python) — **Pittsburgh, PA**
Carnegie Mellon University, Electrical & Computer Engineering Department — *Summer 2015*
- Tested energy loss with an energy harvesting computer through different obstacles and between different distances
- **Python**, **Microsoft Excel** to collect, sort, and analyze large datasets

PROJECTS

Fullstack Engineer (Python, Django, Javascript), Lampi — *Spring 2019*
- Build a customizable lamp using a Raspberry Pi, with weekly team pairs
- Utilized **AWS**, **Django**, and web sockets to host a website to control lamp remotely

Fullstack Engineer (Javascript, Node.js, React Native), Head Smart — *July 2018*
- App allowed users to track mental health daily and provided in-app suggestions and activities to improve daily health
- Built backend **RESTful API**
- Wrote **machine learning** algorithms to detect improvement in mental health before and after activity to provide better suggestions over time
- Designed fluid user interface using **React Native, Expo** and **JavaScript**

Fullstack Engineer (React, Node.js), Couldn't Share Less — *July 2018*
- Collaborated to develop desktop application to allow real-time collaboration to edit/share documents
- Created backend **RESTful API** to allow registration, login, saving documents in a **MongoDB** database, and more
- Utilized **socket.io** to enable real-time connection between users on a shared document
- Designed frontend framework using **React**, **MaterialUI**, **DraftJS**, and **Electron**

SKILLS & TECHNOLOGIES

Languages: Java, Python, Javascript, Swift, C, R, Scheme, Prolog, HTML/CSS
Software: React, React Native, Electron, jQuery, JUnit, Node.js, Django, Flask, SQL, MongoDB, Matlab, Autodesk Fusion360
Tooling: AWS, Webpack, Heroku, Git, Linux, Unix