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Savita Medlang

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EDUCATION

University of Southern California — **Los Angeles, CA**
M.S. Computer Science, GPA: 3.85/4.0 — *Expected Graduation: Fall 2020*

Natural Language Processing, Machine Learning, Web Technologies, Foundations of Artificial Intelligence, Analysis of Algorithms, Database Systems, Information Retrieval

Case Western Reserve University — **Cleveland, OH**
B.S. Computer Science, GPA: 3.4/4.0 — *Fall 2015 - Spring 2019*

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) — **Durham, NC**
Genesys — *Summer 2020*
- Created **K-nearest neighbors**, **logistic regression**, **neural network** models to detect malintent using command executions
- Used **SMOTE** to balance an imbalanced class to achieve better results
- Added ridge and lasso regularization to lower bias on training data

Software Engineering Intern (Python, React) — **Durham, NC**
Genesys — *Summer 2019*
- 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 – Fall 2019*
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

PROJECTS

Fullstack Engineer (Swift, Javascript, Node.js), ePantry — *Fall 2019*
- App allowed users to track items in their pantry and fridge as well as find recipes that use items they already own
- Built backend **RESTful API** for finding recipes and managing pantry items
- Designed fluid user interface using **Swift**

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**

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

SKILLS & TECHNOLOGIES

Languages: Java, Python, Javascript, Swift, C, R, 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
Packages: Scikit-learn, Tensorflow, Pandas, Seaborn, Numpy