[sam290@case.edu](mailto:sam290@case.edu) Permanent Address:

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| github.com/smedlang  savitamedlang.com  (724) 575-2604 | **Savita Medlang** | 1005 Hunt Club Ct.  Export, PA 15632 |

**Education**

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| **Case Western Reserve University Cleveland, OH**  *B.S. Computer Science, GPA: 3.5/4.0 Expected Graduation: May 2019*  Relevant Coursework**:** Java Programming, Data Structures, Algorithms, Discrete Mathematics, Statistics, Computer Networks, Computer Security, Software Engineering, Operating Systems, Game Design, User Experience Engineering, Database Systems  **Horizons Engineering Fellowship San Francisco, CA**  *Software engineering fellowship with coursework focused on web and mobile technologies: May 2018 - Aug 2018*  *JavaScript, Node, Express, React, React Native, Redux, MongoDB, SQL, HTML/CSS* |

**Relevant Experiences**

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| **Research Assistant (C++, AutoCAD) Durham, NC**  *Duke University, Electrical & Computer Engineering Department 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) Pittsburgh, PA**  *Carnegie Mellon University, Electrical & Computer Engineering Department 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) **Cleveland, OH**  *Aim for ‘Computer Science in every high school’, Glenville High School July 2018 – Present*   * Design lesson plans to introduce computer science to beginners, using Snap! and progressing to Python * Teach lessons twice per week to high school students taking Introduction to Computer Science   **University Teaching Assistant Cleveland, OH**  *Professional Communications for Engineers, Case Western Reserve University 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