

# Nathaniel Tesfalidet

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## Education

2020-01 - 2021-12

- Northeastern University  
M.S in Computer Science

2016-08 - 2019-12

- University of Illinois at Urbana-Champaign  
B.S in Computer Science and Mathematics



## Languages and Skills

- Languages: JavaScript (ES6), Python, C++, C, Java, HTML, CSS
- Frameworks/Tools: ReactJS, AngularJS, Node.js, Meteor.js, MongoDB, Version Control (Git/Github and TFVC), Linux



## Experience

2019-06 - 2019-12

- Software Engineer Intern - Backend Developer  
*EarthSense | Research Park*
  - Worked on building a web based infrastructure that transfers, analyzes, hosts and presents data collected by EarthSense robots on the server side of a web based analytics application.
  - Created a pipeline that queues selected machine learning algorithms and uploaded data collections onto SQS (in a Meteor instance) which are transferred over to an EC2 instance for running the selected algorithms on selected collections.
  - Worked on automatically storing the outputs of algorithms from EC2 instance into MongoDB and created a backend layer by utilizing Meteor.js and Node.js.

2018-08 - 2019-05

- Part-time Full Stack Web Developer (Unpaid Volunteer)  
*Stackend Solutions LLC*
  - Remotely developed web applications and communicated with clients to deliver solutions that fit clients' needs. Developed web applications for startups using HTML, CSS, ReactJS, Node.js and MongoDB.

2018-05 - 2018-08

- Software Engineer Intern - Frontend Developer  
*Gartner | Research Park*
  - Maintained and improved on Genie, a web based data analytics tool that provides sentiment analysis results on data provided by our business clients. Utilized AngularJS to develop the scripting solutions.
  - Developed a search tool in order to fetch machine learning processed data (via RESTful API calls) from the Elasticsearch database and developed graphs using d3.js to visualize the data. Worked with UI/UX designers to design templates for the website using HTML and SCSS.
  - Worked on the MetaData project, a web based admin tool used to view employee information. Created a data visualization component to the website, based off of mockup data, using ReactJS and d3.js.



## Projects

- Task Manager Project  
*Javascript, HTML/CSS, AngularJS, Node.js and MongoDB*
  - Implemented a full-stack web app that manages and creates tasks for users.
  - Used libraries such as Node.js, Express and Mongoose to create a RESTful API that serves as endpoints in the server-side. Used AngularJS for the front-end.
- MyDoc  
*Python*
  - An echo dot skill that enables users to state and send a list of symptoms to their personal doctors.
  - Wrote a python script that manages raw text communication between user and echo dot by interacting with the Alexa API (using Flask).
- Tiny HTTP Server  
*C*
  - Implemented a simple web server that supports basic web server functionalities such as supporting HTTP methods and listing contents of a directory as a formatted HTML page.
  - Worked on implementing concurrency as a feature for this simple server so that the server can process multiple requests at a time.