

# Michael McCabe

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## Summary

Engineer with experience in JavaScript and React/Node, and a passion for software design and development.

## Skills

Languages: JavaScript, HTML, CSS, Python

Tools: Node.js, React.js/Redux, Express.js, Django, PostgreSQL

## Open Source

### Mozilla

#### **Add-ons Code Manager and web-ext**

[Contributor Recognition](#) (MikeM711) | [Mozillian account](#)

- Add-ons Code Manager: Fixed a broken component layout (SCSS)
- Web-ext: Fixed a bug allowing users to test their extensions on android browser build variants (JavaScript)

## Software Projects

### Professional Software Projects

#### **AG Laser Technology: Production Planner (Node.js, Express.js, React.js/Redux, PostgreSQL)**

- Collaborated with multiple company teams to build a CRUD full-stack web application that calculates the total amount of material needed to complete a job.
- All authenticated users have the ability to edit the database and save their production plans to their own profile.
- Tool assists management with making quick and accurate decisions and saves \$60K /year in production costs.

### Personal Software Projects

#### **Parselt (Node.js, Express.js, React.js/Redux)**

[GitHub](#) | [Website](#)

- Developed a JavaScript web app that allows non-technical people the ability to extract information, or perform data science, for large amounts of PDF documents or complex text data.
- Users can extract data from PDFs such as invoices, forms and receipts, or even gather all “confirmed cases” of COVID-19, in the United States from multiple W.H.O. PDF files.

#### **Deep Learning Handwriting Recognition (Django, React.js, Tensorflow/Keras)**

[GitHub](#) | [Website](#)

- Built a full-stack web app that utilizes pre-trained deep learning models to predict users’ handwriting.
- The full A.I. network, developed using Python, utilizes a jury of 5 convolutional models to completely eliminate model quirks, and enhance prediction accuracy.

#### **Non-API YouTube Comment Section Scraper (Node.js, Express.js, React.js)**

[GitHub](#) | [Website](#)

- Developed a JavaScript web app that sends a bot to render every comment on a YouTube video and collect data from the HTML, while Socket.IO displays status messages of the bot to the user.
- When complete, the application is supplied with comment data, and the user has the ability to filter comments.

## Current Work History

### **AG Laser Technology, Engineer, Front Royal, Virginia April 2016 – Present**

- Sole engineer responsible for startup and production activities of a state-of-the-art, custom steel door and cabinet manufacturing facility.
- Develops scripts that automate manual processes to maximize productivity, control inventory and save money.
- Designed and created approximately 15 different types of products, using AutoCAD & Autodesk Inventor.
- Ensures the product design is both functional and meets all customer requirements, and that the product is designed for manufacturability and assembly.

## Education

B.E. in Mechanical Engineering: May 2015

State University of New York at Stony Brook, Stony Brook, NY

GPA: 3.47 | Major GPA: 3.51

Pi Tau Sigma Honor Society