

Michael Bullington

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Work Experience

DJI Technology Ltd.

May 2019 – Present

Front-End Web Developer Intern

Remote (5mon+, part-time 9mon); Palo Alto, CA (3mon)

- Currently researching & developing security compliance strategies for US Web Team projects.
- Re-built the DJI AirWorks experience to adapt to an online-first conference amid the COVID-19 pandemic. Duties were shared across the US Web Team and include design, development, QA testing, and deployment on AWS East.
- Lead front-end web development for a special project using **Vue 2** and **Mapbox**. The product requires close compliance with government guidelines and collaboration with DJI teams in Shenzhen. The product will have a focus on the North American market.
- Establishing practices for how the US Web Team writes frontend software and JavaScript. Contributed to **Turf.JS** and various other open-source projects representing DJI.
- Helping to interview candidates for web positions in the Palo Alto office.

Wolfram Research Inc.

May 2018 – May 2019

Intern, Core Engine R&D

Remote (part-time 10mon); Champaign, IL (2mon)

- Overhauled typesetting engine for Wolfram Cloud, improving aesthetic and better matching **TeX** metrics. <https://medium.com/wolfram-developers/modernizing-math-typesetting-with-svg-8d82ca606b9a>
- Created a library-agnostic mapping solution with default **Leaflet** driver, combining Wolfram's rich computational intelligence with mapping on the web.

Acuity Brands; DGLogik Inc.

April 2015 – May 2018

IoT Software Engineer

Remote; Oakland, CA

- Helped develop a secure protocol for IoT devices with SDK implementations. It is now an integral part of the company's stack and ships to thousands of customers worldwide such as **Cisco**, **IBM**, and **Intel**.
- Shipped multiple foundational features for Acuity Brands' Atrius suite using **D3**, **THREE.js**, and **Mapbox**. Product has since been used by customers such as **Microsoft** and **Target**.

Education

Pennsylvania State University; Schreyer Honors College

August 2017 – May 2021 (anticipated)

- **Computer Science**, Bachelor of Science (3.91 GPA)

State College, PA

HackPSU

September 2019 — Present

Tech Team Member

- A bi-yearly hackathon organized by students at Penn State University. In November 2019 HackPSU saw nearly 900 attendees. HackPSU is an official MLH hackathon.
- Designing and creating an official HackPSU mobile application using **React Native** and **Firebase**.

Projects

- **Interval**: Android application that tracks time for remote workers and displays it in a well-designed manner. Allows for CSV export among other features. Built with Flutter and designed with Figma.
- **node_preamble.dart**: Wrapper library that allows Dart applications to run in Node.js. Small part of the 'sass' npm package, other Google projects, and official tooling for the Khronos Group (glTF).

Skills

- **Programming**: expert in JavaScript family, HTML/CSS, Dart, Java; intermediate experience with C#, Kotlin, and C++; familiar with Vala, Python, and Verilog
- **Software**: Web Platform, Mapbox, Flutter, Leaflet, GeoJSON, Node.js, React, Vue, Android, TDD, Xamarin, GTK 3+, Spring, Git, OpenSSL, SQLite, TeX, GraphQL, Gatsby

Miscellaneous

German-American Partnership Program

June 2016