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I am a Front-End Web and Mobile Developer with expertise in client-side architecture and mapping technology.

Work Experience

DJI Technology Ltd.

May 2019 – Present

Front-End Web Developer Intern, Tech Lead

Palo Alto, CA | Shenzhen, China

- Lead front-end web development for a special project using **Vue 2** and **Mapbox**. The product requires close coordination with government regulations and DJI teams in Shenzhen. The product will have a focus on the North American market.
- Collaborated on a technical timeline for the project, detailing tasks to front-end engineers in both Palo Alto and Shenzhen.
- Helped to interview candidates for various web positions in the company.

Wolfram Research Inc.

May 2018 – May 2019

Intern, Core Engine R&D

Remote | Champaign, IL

- Developed user-facing features for Wolfram Cloud using web technologies such as **React** and **Flow**.
- Overhauled typesetting engine to improve aesthetic and better match **TeX**-like specifications.
<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.

DGLogik Inc.

April 2015 – May 2018

Software Developer

Remote | Oakland, CA

- Helped develop a secure protocol for IoT devices, including a JavaScript and Dart SDK implementation. It is now an integral part of their stack and ships to thousands of customers worldwide such as **Cisco**, **IBM**, and **Intel**.
- Developed multiple prototypes using **D3**, **THREE.js**, and **Xamarin**. Integrated a new mapping solution based on **Mapbox** into the core product.
- Helped transition the company's internal processes after acquisition by **Acuity Brands Inc.**

Education

Pennsylvania State University (Schreyer)

August 2017 – Dec 2020 (anticipated)

- **Computer Science**, Bachelor of Science (**3.9 GPA**)

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 for 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).
- **yellowstone**: Pure TypeScript implementation of RTP/RTSP client protocols that allow for video streaming without external tools such as ffmpeg. Supports H264 transport and additional IP camera features.

Skills

- **Programming**: expert in JavaScript, HTML/CSS, Dart, Java; intermediate experience with C#, Kotlin, C++, and Wolfram Language; familiar with Vala, Rust, and Processing
- **Software**: Web Platform, Mapbox, Flutter, Leaflet, GeoJSON, Node.js, React, Vue 2, Android, D3.js, THREE.js, Webpack, TDD, Xamarin, GTK 3+, Spring, Git, Gradle, OpenSSL, SQLite, TeX, Figma, Sketch

Community Involvement

German-American Partnership Program

June 2016

- Foreign exchange student at the Grottefend-Gymnasium in Hann. Münden, Germany.

Mission to Dominican Republic

June 2015

- Humanitarian mission to construct a water treatment plant for the impoverished suburbs of Santiago.