

# James Kim

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## PROFESSIONAL EXPERIENCE

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### Honda Racing Corporation

April 2021 – Present

#### Full Stack Software Engineer

Santa Clarita, CA

- Implemented a real-time data streaming solution using Kafka, drastically reducing data analysis time from days to seconds
- Integrated dynamic data visualization charts using Plotly.js and D3.js, enabling teams to make critical decisions on the spot during races, leading to more informed strategies and improved race performance
- Designed and developed an Angular application that seamlessly connects to CosmosDB and MsSQL, streamlining a previously convoluted process requiring 3 months of training
- Played a key role in the testing phase, contributing to documentation and creating GitHub workflows to facilitate seamless Azure deployment for teams and internal engineers
- Collaborated and led discussions with Aerodynamics Engineers to consolidate multiple processes and tools into one web app

### Formosi

August 2020 – November 2020

#### Software Developer Intern

Torrance, CA

- Drafted requirements analysis documents and ensured that applications created during the development cycle adhered to defined user specifications
- Created REST API using Node.js and Express.js to fetch video metadata from YouTube API and store in MongoDB
- Consumed both third party API and internal API in Typescript to query and display over 500 videos amongst 24 categories
- Conducted exploratory testing to identify bugs and evaluate functionality of application

## PROJECTS

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### F1Charts - A web app that leverages OpenF1 API to consume race data and display charts

- Developed a web app in Angular 15 and a server in NodeJs
- Integrated OpenF1 API to fetch historical telemetry data on past Formula 1 races
- Utilized PlotlyJS to create interactive visualization charts, including lap vs. lap time comparisons and multiplot displays for analyzing various car metrics like brake, speed, and gear.
- Set up a Github workflow to automate the deployment of both frontend and the server to Azure

## EDUCATION

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### California State University, Long Beach

May 2019

Bachelor of Science, Computer Science

Long Beach, CA

## TECHNICAL SKILLS

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**Software Development:** Github, Azure

**Databases:** CosmosDb, Kafka through Confluent, MySQL, MsSQL, MongoDB

**Programming Languages:** Typescript/Javascript, Python, Java,

**Technologies and Frameworks:** Angular 15, NodeJS, ExpressJS

**Testing:** Karma, Jasmine, Jest

**Operating Systems:** Linux/Unix, Windows

**Interests:** Took up Leathersmithing, DragonBoating on the weekends, and Weightlifting