

# Mihir Achyuta

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## EDUCATION

**University of Wisconsin Madison**

Madison, WI | May 2024

BS COMPUTER SCIENCE - 3.625 GPA

**Coursework:** Data Structures and Algorithms, Operating Systems, Introduction to Computer Systems, Discrete Math

## EXPERIENCE

**RIPPLING** | INCOMING SOFTWARE ENGINEERING INTERN

San Francisco, CA | Sep 2022 – Dec 2022

- Will be working to build an all-in-one Unified Workforce Platform combining HR and IT Software and Operations
- Will be developing in Typescript and React on the frontend and Python and Django on the backend

**FACEBOOK** | SOFTWARE ENGINEERING INTERN

Menlo Park, CA | May 2022 – Aug 2022

- Worked with Rust Systems and Javascript on Hallmark, a policy engine and metadata store ensuring an end-to-end verifiable software supply chain, tracking and auditing artifacts through Facebook's Dev Infra Org
- Engineered a time based explain feature to help debug dynamically changing artifact property evaluations affecting 25+ million artifacts and the validation of 5+ billion references with the help of Apache Thrift endpoints
- Converted Hallmark's 1D Directed Acyclic Graph to allow queries of overlayed transform groups and graphs, making clear the relationship between artifacts in the build process along with finding their transitive closure
- Plotted the generalized transform group graph, tracking genericized paths of common artifacts, in a React.js Web UI, allowing parts of the graph to be collapsible and expandable on demand

**HARDLY** | SOFTWARE ENGINEERING INTERN

San Jose, CA | May 2021 – Aug 2021

- Worked on a productivity app that prioritizes 1000's of notifications to improve remote work productivity
- Built and integrated 5+ React and ChartJS UI's into production and styled them with Tailwind CSS
- Migrated the old Electron React and TypeScript code into the new React.js app and established the new local component library of over 7 components
- Devised a Tailwind styled UI in Electron for users to input multiple CSV datasets and dynamically displayed the sentiment-analyzed data, highlighting important keywords

**FIRST ROBOTICS TEAM 18715** | LEAD DEVELOPER

San Jose, CA | Aug 2020 – April 2021

- Educated the programming cohort using a condensed version of the AP Computer Science A curriculum, covering object oriented programming concepts in Java
- Oversaw changes to the codebase using Git and Github and implemented the controller-driven and autonomous robot code from scratch using the FTC Software Development Kit
- Maximized the number of points scored per match using the TensorFlow Lite model to dynamically guide the robot based on the number of rings present on the field

## PROJECTS

**PALETTEBUDS** 

TYPESCRIPT, REACT, NODE, EXPRESS, MONGODB, MATERIAL-UI

Deployed a React + Redux web application on Netlify allowing users to create color palettes. Leveraged Material UI and SASS components for styling and React Router to generate palette routes with the Express Server on Heroku.

**DSAPLAYGROUND** 

TYPESCRIPT, NODE, EXPRESS, FIREBASE, NPM, HEROKU

Launched a TypeScript and Node Command Line interface available and hosted as an NPM package. Preserved over 5 data structures using Firestore and exposed operations on them with an Express RESTful API

## SKILLS

**Languages:** C++, Rust, Javascript, Node, MySQL, React, HTML/CSS, SASS    **Frameworks:** MongoDB, Express, Tailwind CSS, Material UI  
**Tools:** Git, AWS(EC2, RDS), Mongoose, Heroku, Netlify