

TY GOOCH

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🏠 Santa Barbara, CA

EXPERIENCE

Software Engineer Intern - UCSB Enterprise Technology Services (2018 - present)

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- Built modules in Aurelia.js and vanilla JavaScript for UCSB's Identity Management web applications

PROJECTS

UCSBMap.com - Interactive online map of the UCSB campus

- Full stack web app built with Java Spring, MongoDB, React/Redux and Leaflet.js
- Used open source GIS resources to collect highly accurate GeoJSON data of UCSB buildings and interiors
- Developed chrome extension UCSB Map For GOLD that allows students to easily view their className locations on ucsbmap.com with one click from their online schedule

Isla Vista Emergency Map - Emergency dispatch visualization with live updates

-Full stack JavaScript web app built with Express.js, Twitter API, and MongoDB on the backend and React/Redux and Google Maps API on the frontend

- Server side JavaScript runs a Twitter livestream, parsing tweets to store emergency data
- Used Python to scrape 94,000 tweets, allowing users to view all emergencies in Isla Vista since March 2009

Caltrain Live - Map of real time CalTrain vehicle locations

- Uses JavaScript, jQuery, and Leaflet to add an interactive layer to Google Maps tiles
- Client side JavaScript determines approximate geographic locations of trains

SKILLS

JavaScript (ES9), jQuery

Node.js

React.js, Redux

Express.js

Ruby, Ruby on Rails

MongoDB, PostgreSQL

Leaflet.js, Google Maps

GIS

HTML, CSS

EDUCATION

UC Santa Barbara - Computer Science Engineering (2019)

- Pursing B.S. degree. Coursework includes Python/C++ programming, data structures and algorithms, computer architecture, assembly language, and discrete mathematics