Tanner Velten

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TECHNICAL SKILLS

Strong: React, JavaScript, Node, Express, MongoDB, HTML, CSS, Heroku, React Router, Git, NPM
Experienced: Material UI, AWS, Docker, C++, PostgreSQL, Async/Await, Leaflet, Google Maps API

PROFESSIONAL EXPERIENCE

Northrop Grumman C-RAM C2 - Software Engineer   Aug 2018 - Present
- Java front end development for handheld tablet.
- Improved prototyping process efficiency by dynamically setting 80% of existing UI properties.
- Wrote bash automation scripts to improve development and testing workflow.

Tutorfly - Advisor - AWS Cloud Engineering   Sep 2018 - Present
- Leading migration of full stack React, Node/Express, Mongo application from Heroku to AWS.
- Deployed React front end to AWS S3 and Cloudfront for static web hosting.
- Used CloudFormation to provision VPC and AWS Fargate to run containers deployed to ECR.

UCLA hatecrimemap - GIS Web Developer   Feb 2018 - Jul 2018
- Developed map UI with React Leaflet and Material-UI to visualize harassment claim data.
- Wrote modular React components that interact with local and global state to minimize API calls.
- Included intuitive UI to handle complex filtering actions and reactively update map component.
- Built Express endpoints to route data from a PostgreSQL database.
- Created automated cron jobs to handle asynchronous transactions with db and external APIs.

Tutorfly - Full Stack Software Engineer, Interim CTO   May 2017 - Dec 2017
- Implemented custom React components designed with modularity and reusability in mind.
- Reduced file sizes in UI codebase by 50% using functional components and React best practices.
- Built responsive React components with CSS Flexbox and Grid to fit all screen widths.
- Constructed back end methods using Meteor to securely expose MongoDB data to the client.
- Improved site security by adding user confirmation checks to back end Meteor methods.

SOFTWARE PROJECTS

Bird Scooter Petition - React, Meteor, Heroku   Feb 2017
- Built full stack application with React + Meteor, hosted by Heroku with mLab for cloud storage.
- Implemented presentational component to reactively update when form data is submitted.

Battleship - C++   Jun 2017
- Built classes using OOP, inheritance, and polymorphism to keep program modular and extensible.
- Applied nondeterministic, recursive ship placement algorithm to keep enemy AI fresh.

Treasure Hunter - JavaScript   Mar 2017
- Implemented iterative DFS path-finding AI to quickly solve the puzzle.
- Optimized algorithm speed by adding logic to map surrounding cells before choosing next step.

EDUCATION

UCLA - Los Angeles, CA   Spring 2018
- Cognitive Science and Computer Science