

Benjamin Kern

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Technical Skills

Front End | JavaScript, TypeScript, React, HTML5, CSS3, MaterialUI, Redux, Next.js, MobX

Back End | Node.js, Express, Koa, C#, ASP.NET, Python, PostgreSQL, MongoDB, MySQL, Redis

Testing/Deployment | Jest, Mocha, Chai, Playwright, Artillery.io, AWS, GCP

Developer Tools | Vim, Git, Webpack, Babel, Scrum, TDD, Docker, New Relic, Jira

Professional Experience

Taxfyle - *Software Engineer*

2022-2023

TypeScript | React | MobX | Koa | C# | ASP.NET | PostgreSQL | Redis | Jest | Playwright | GCP

- Designed new endpoints for both **Node.js** and **ASP.NET** APIs, while verifying work with integration tests using tools, such as **Jest**
- Developed frontend features with **React** and **MobX** based on provided Figma designs and created end-to-end tests with **Playwright** to verify functionality
- Automated data synchronization and reporting processes for multiple departments, reducing their amount of manual work by 100 hours per week
- Conducted code reviews on team's PRs and performed quality assurance testing for new features and bug fixes
- Collaborated with Business Analysts and Tech Leads to slice feature epics into smaller user stories

Archer Western Construction - *Project Engineer Intern*

2020

- Created detailed quantity take-off spreadsheets by analyzing design drawings in order to reforecast the estimated cost and hours required for various aspects of the project
- Developed specific, easily understandable work plans for the labor crews through communication with the project manager, superintendent, foreman, and safety manager
- Collected data from water samples taken weekly at ten areas around the job site to validate the weekly reports

Personal Projects

Atelier API - *RESTful API built for existing shopping Front End application*

- Set up database with **PostgreSQL** and defined API routes with **Express** to perform necessary CRUD operations for a Questions and Answers service
- Analyzed query response time and reduced latency of requests from 20s to 30ms by indexing appropriate fields
- Load tested with **Artillery** to identify performance bottlenecks, then implemented caching with **Redis**, which increased throughput from 700 responses per second to 1000 responses per second

WOOF - *Full-stack application that allows users to research dog breeds and find dogs near them available for adoption*

- Architected API routes in **Express** server to store and remove saved dogs from user documents in **Mongo** database with **Mongoose** schema design
- Implemented geolocation to connect users to nearby organizations that have available adoptions and then to display that information on a map using the Google Maps API
- Authenticated users and managed user sessions with **Firebase**

Education

Hack Reactor - *Advanced Software Engineering Immersive Program*

2021

University of Miami - *Bachelor of Science, Civil Engineering*

2021

- Relevant courses: Calculus II & III, Linear Algebra, Applied Probability & Statistics, Ordinary Differential Equations
- Awards: President's Scholarship, John Farina Family Endowment, Foote Fellow Honors Program, Provost's Honor Roll, Dean's List, Cum Laude