

David Lim

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TECHNICAL SKILLS

Front End | JavaScript (ES5 and ES6), React, HTML5, CSS3, Redux, jQuery, Babel, Webpack, NGINX
Back End | Node.js, Express, PostgreSQL, MongoDB, MySQL, RESTful API Development
Testing/Deployment | Jest, Mocha, Chai, Loader.io, K6, New Relic, AWS: EC2
Developer Tools | Vim, Git, npm, Agile Methodology, Scrum, TDD

SOFTWARE ENGINEERING APPLICATIONS

Full Stack Engineer | Encompass | [Github-Encompass](#) 2022
Engineered an interactive mobile-first application to aid in the scheduling and managing of tasks

- Integrated **plugins** such as **FullCalendar** and **Swiper** with **React** for interactive features.
- Used **Draggable** to allow drag and drop of tasks onto a calendar time slot for intuitive scheduling.
- Allowed others to book appointments via shared link to a user's calendar using **authentication**.
- Provided users with detailed metrics of their completed tasks using **Chart.js**.

Backend Engineer | Scaling Atelier | [Github-SDC](#) 2022
Turned a monolithic legacy API into multiple scalable microservices to accommodate higher traffic

- Deployed and horizontally scaled microservice using 3 **EC2 instances** and **NGINX** for load balancing and caching.
- Handled 1500 RPS on all endpoints far exceeding the client's request of 500 RPS.
- Performed **ETL** onto **PostgreSQL** and **indexed** tables to decrease query times under 50 ms.
- Used a combination of **New Relic**, **K6**, and **Loader.io** to test the system's bottleneck.

Frontend Engineer | Atelier | [Github-Atelier](#) 2022
Created a web page for an ECommerce business to dynamically display requested products

- Engineered a product page with zoomable image carousel, descriptions, and reviews with **React**.
- Served a page that dynamically renders different products based on the URL using **Express**.
- Improved Google Lighthouse performance from 65 to 93 using **uglify** and **Webpack**.

PROFESSIONAL EXPERIENCE

Software Developer Intern | CACI, Inc 2021-2021

- Created a web app to view sprint planning for scrum teams using **Javascript**, **HTML**, and **CSS**.
- Stored all the sprints into **MongoDB**, allowing scrum masters to review previous plannings.
- Allowed assignment of roles to users and corresponding permissions through user authentication.
- Facilitated DSUs, and participated in Sprint Planning, Sprint Review, and Sprint Retrospectives.

Systems Engineer Intern | Inertial Labs 2019-2020

- **Automated** data collection and analysis by a combination of **Bash scripting** and **MATLAB**.
- Performed quality analysis on inertial navigation units through drive and drone tests.

EDUCATION

Hack Reactor | Advanced Software Engineering Certificate 2022

Virginia Tech College of Engineering | Aerospace Engineering 2022

- In-Major GPA: 3.83
- Software Design & Data Structures, Intro to Software Design, Intro to Programming in Python
- Dean's List awarded at the end of all eight semesters in recognition of outstanding performance.