Nicholas Cheung

415-347-5841   Nkkcheung@gmail.com   Portfolio   LinkedIn   Github

SKILLS

React, Redux, JavaScript (ES6), HTML5, CSS3, Jira, Figma, Sketch, Express.js, MongoDB, Node.js, AWS, Ruby on Rails, PostgreSQL, SQL, jQuery, Object-Oriented Programming (OOP), Git, Insomnia, Postman, Webpack, D3.js, Neo4j

PROFESSIONAL EXPERIENCE

Backend Software Engineer   **GitLab**

Carboncopies Foundation | *501(c)(3) non-profit supporting work in Whole Brain Emulation*   Nov 2022 - Present

- Collaborate with cross-functional team including Product Manager and Frontend Engineer to develop a programmatic approach for improving team collaboration at Carboncopies, leveraging NoSQL graph-based visualization to represent milestones
- Develop and execute a data integration solution by leveraging custom Cypher queries that efficiently export data as a CSV file, or load sheet data between Neo4j AuraDB and Carboncopies's Google Share Drive, enabling seamless creation and updating of nodes and relationships, all within a single streamlined process
- Create extensive documentation outlining backend server configuration and effective utilization of API routes including detailed instructions and illustrative code snippets to enhance system utilization

Frontend Software Engineer

TBD Health | *Health-Tech startup specializing in at-home STI/STD screening for women*   Oct 2020 - Feb 2021

- Synergized with founders, CTO, and clinicians, to implement an iterative approach to enhancing UI by rebuilding components with React Hooks, HTML/CSS, conducting performance testing, developing MVPs and product features, and debugging in a test production environment to meet the deadline for customer beta testing
- Iterated on a HIPAA-compliant messaging feature for customers and clinicians to send messages, receive appointment requests, and reply to messages while excluding server-generated messages.
- Modularized React front-end components for Clinician and Patient web applications, slashing Messaging feature development time by 50%, while ensuring cross-platform brand consistency and enhancing UX
- Participated in daily standups to provide updates on features, end-to-end testing of the patient-clinician workflow, bug fixes, and roadblocks, and engage with the team to ensure effective communication and project alignment

PERSONAL PROJECTS

SuperTramp | *(React, Redux, Ruby on Rails 7, HTML, CSS, PostgreSQL, AJAX, AWS, Heroku)*   **live** | **GitHub**
Tribute to the popular camping website HipCamp, where users explore available listings across the world

- Implement Ruby on Rails backend to connect with AWS S3 for listing and avatar image cloud storage, to increase application scalability
- Identify real-world locations with Google Places Autocomplete API which allows users to search for campsites based on reliable geospatial data
- Constructed validation logic that checks new bookings against existing bookings to block double bookings and ensure the best user experience

San Francisco AQI | *(D3.js, Fetch, JavaScript, HTML, CSS)*   **live** | **GitHub**
D3.js application that utilizes an external API to present real-time air quality index and shows previous records of San Francisco's AQI

- Deployed Fetch API and promise handling to seamlessly update real-time PM2.5 levels fetched from an external API, ensuring accurate data representation
- Leveraged Data Visualization library D3.js to append scatterplot and paths based on over 2,400 data points to enhance user interactivity via 'mouseover' and 'click' actions
- Manipulated DOM by leveraging Vanilla JS and CSS to craft cloud-shaped widgets, seamlessly appending HTML/CSS and JS Promise result elements for smooth page loading

EDUCATION

AppAcademy - Immersive Software development course with a focus on Full-stack web development 2019-2020

University of California, Davis - *Bachelor of Science in Microbiology*