Nicholas Cheung

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SKILLS

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

EXPERIENCE

TBD Health | Health-Tech startup specializing in at-home STI/STD screening for women   Oct 2020 - February 2021
Front End Software Engineer | Freelance

- Collaborated with COO, and CTO, to implement an iterative approach to enhancing UI by rebuilding components with React Hooks, HTML/CSS, performance testing, and debugging in a test production environment to meet the deadline for customer beta testing
- Utilized designs in Sketch to design complementary designs and front end logic to render a HIPAA compliant messaging feature for customers and clinicians to Send messages to Clinicians, receive Appointment Requests, and reply to specific messages including STI Test Results and exclude server generated messages.
- Write modular Front End code used on Clinician facing companion website for enhanced clinician UI and prevent unauthorized access to specific components, ensuring patient privacy through beta testing for residents in Washington State
- Sanitized HTML with DOMPurify package to prevent cross-site scripting attacks (XSS) to allow Clinicians to send paragraph formatted messages and send private links to resources or video conferencing
- Created custom forms, loading screens, and error handling using useEffect hooks and document methods, for enhanced UI presentation across multiple forms, pages, and error message handling

PROJECTS

SuperTramp | *(React, Redux, Ruby on Rails 5, HTML, CSS, PostgreSQL, AJAX, AWS)*   **Live** | **GitHub**
Tribute to popular camping website HipCamp, where users explore various listings across many locations

- Utilized Rails backend to connect with AWS S3 for image cloud storage, to increase application scalability
- Identified real world locations with Google Places Autocomplete API which allowed users to reliably search for campsites based on geolocation
- Constructed validation logic that checks new bookings against existing bookings to prevent double bookings and ensure 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

- Dynamically programmed cloud-shaped widgets via CSS by appending HTML elements to DOM via promises, leveraging asynchronicity of JavaScript for smooth page loading and update current PM2.5 levels from external API
- Utilized D3.js to append scatter plot and paths based on calendar years to D3-appended SVG element to enhance user interactivity via mouseover and click actions
- Restructured CSV data by using D3.js built in methods to improve user data manipulation and interactivity

Food Harmony | *(MongoDB, Express.js, React, Node.js, AWS, Git)*   **Live** | **GitHub**
MERN stack app that *curates unique food items based on distance to a restaurant*

- Integrated Flickity library which produced an interactive photo carousel to enhance user experience on mobile and desktop platforms
- Installed Multer middleware and AWS S3, to store Food and Restaurant pictures and programmatically assign unique URLs to handle multipart/form-data and improve app scalability
- Maintained public git repository and remotely communicated with associated Software Engineers on smooth git workflow and troubleshooting

EDUCATION

AppAcademy - Immersive Software development course with a focus on Full stack web development 2019-2020
University of California, Davis - *BS Microbiology, 2005-2010*