Nicholas Cheung

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SKILLS

React, Redux, JavaScript ES6, HTML5, CSS, Jira, Figma, Sketch, Express, MongoDB, Node.js, AWS, Ruby on Rails, PostgreSQL, SQL, 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 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
- Enhanced UI presentation across multiple forms, pages, and error message handling by utilizing useEffect hooks and document methods for responsive web design

PROJECTS

SuperTramp | *(React, Redux, Ruby on Rails 5, HTML, CSS, Postgres, 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*