# Nicholas Cheung

Full Stack Developer

(415) 347-5841 nkkcheung@gmail.com Portfolio LinkedIn GitHub

Mission driven Full Stack Developer with contributions to Whole Brain Emulation projects at Carboncopies Foundation and Women's STD/STI identification. Proficient in React, Redux, JavaScript, and various development tools, my work reflects a commitment to collaborative problem-solving, innovation, and delivering user-centric, scalable solutions.

## Skills

**Programming Languages:** JavaScript, Ruby, SQL, HTML, CSS
**Frameworks:** Ruby on Rails, React, Express
**Data Management:** Neo4j, PostgreSQL, MongoDB, Rest API

## Professional Experience

**Carboncopies Foundation | Backend Engineer** **November 2022 - Present**

- Collaborate with 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

**TBD Health | Frontend Engineer** **October 2020 - February 2021**

- Work Collectively with founders, CTO, and clinicians, 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
- Iterated and implemented HIPAA-compliant messaging feature enabling customers and clinicians to send messages, receive appointment requests, and reply to specific messages, including STI test results, while excluding server-generated messages.
- Participate in daily standups to provide updates on feature progress, bug fixes, and roadblocks, and engage with the team to ensure effective communication and project alignment
- Employed React to craft modular front-end components for Clinician and Patient web applications, slashing Message feature development time by 50%, while ensuring cross-platform brand consistency and enhancing UX

## Projects

**SuperTramp** **April 2020 - Present**

- 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
- Streamlined development by integrating visually dynamic modals and third-party libraries including React-Dates, Google Maps API, and Google Search Box into responsive user interfaces with React

**San Francisco AQI** **April 2020 - December 2022**

- Dynamically programmed cloud-shaped widgets via CSS by appending HTML elements to DOM through promises for seamless page loading, while simultaneously updating real-time PM2.5 levels fetched from an external API
- 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
- Restructured CSV data by using D3.js built-in methods to improve user data manipulation and interactivity

## Education

**University of California, Davis | Bachelor of Science** **September 2005 - June 2010**