Francis Nguyen

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EDUCATION

California State Polytechnic University, Pomona   Pomona, CA
Bachelor of Science in Computer Science | GPA: 3.77   *May 2024*

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, Python
Frameworks/Technologies: React.js, Node.js, Tailwind CSS, Jest, Firebase, MongoDB, PostgreSQL, AWS
Developer Tools: Git, Github, Figma, Trello, npm

EXPERIENCE

Software Engineer Intern   June 2024 – July 2024
California Seismic   *Remote*

- Created the **ASCE7** feature, displaying 7 chapters of the structural design engineering code for studying purposes
- Designed wireframes in **Figma** and translated them into multiple UI components with **React** and **Tailwind CSS**
- Developed **unit tests** for the ASCE7 feature using **Jest** to increase test coverage and stability of the codebase
- Collaborated with an **Agile development team of 5** in weekly sprints, completing **15+ Trello** tickets for updates and bug fixes to ensure timely delivery of tasks

PROJECTS

Instagram Clone | *React, Firebase, ChakraUI*

- Emulated the official Instagram website with **React** and **Chakra UI** to build out the user interface and **Firebase** for backend services
- Enabled users to create an account, search and follow other accounts, make posts and comments, and edit user profiles
- Implemented **email and Google authentication** through **React Firebase hooks** to fetch user data in **Firestore**
- Constructed **15 custom React hooks** to fetch and update **Firestore** information and used **Zustand** for state management

CPP Business Search Engine | *Python, Flask*

- Co-developed a **Python** and **Flask**-based search engine with a **team of 4** for the Cal Poly Pomona business department, enhancing the search efficiency of faculty research work
- Engineered a web scraper with **BeautifulSoup** to go through **200 total pages**, storing **22 target faculty pages** and **2000+ index terms** in **MongoDB**
- Performed information retrieval tasks such as parsing, indexing, and ranking to return relevant results based on the user's query

Ecommerce Store | *React.js, Node.js, Express.js, MongoDB*

- Developed and maintained a full-stack ecommerce platform, enabling users to browse **30+ products** and manage shopping carts
- Utilized **Express.js** to implement **10+ APIs** to manage core functionalities including product management, user authentication, and shopping cart operations
- Configured file upload handling using **Multer** to allow admin users to upload product images, storing files securely on the server and serving them via static routes
- Handled state management with React's **Context API** to efficiently control global application state

Online Portfolio | *React, Tailwind CSS, AWS*

- Created a visually appealing and mobile-friendly personal site with **React** and **Tailwind CSS** to showcase an array of skills, experiences, and projects
- Deployed the site through **Amazon Web Services** including **AWS Route53**, **S3 storage**, and **Cloudfront HTTPS distribution** for increased global reach, scalability, and security
- Integrated **CI/CD** solution for automatic deployment of changes from Github using **CodePipeline** and **CodeBuild**