Leslie Liang

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EDUCATION

University of California, Los Angeles — Los Angeles, California
Bachelor of Science in Computer Science; GPA: 3.3/4.0 — *September 2015 - June 2019*

Relevant Coursework: Web Applications, Database Systems, Operating Systems Principle, Algorithms and Complexity, Programming Languages, Software Engineering, Computer Systems Architecture, Computer Network Fundamentals

SKILLS

- **Languages**: C, C++, Java, Python, SQL, HTML, CSS, JavaScript, TypeScript, PHP, Scheme, Prolog, OCaml
- **Technologies**: DOM, Angular, Express, Node.js, MongoDB, Storybook, Bootstrap, React, Material-UI, Docker, Git, Linux

EXPERIENCE

Northrop Grumman Corporation — El Segundo, CA
Software Engineer — *March 2020 - Present*

- Used React, Material-UI, React Router to implement responsive and accessible UI features for a document generation web application
- Polled Mongo for new document revisions and notified the frontend of any changes by emitting an event using socket.io
- Developed UIs using Storybook by following the component-driven development (CDD); transpiled the project using webpack
- Wrote unit tests for React components, React routes and socket.io connections using Jest and React Testing Library

Northrop Grumman Corporation — Redondo Beach, CA
Software Engineer — *June 2019 - March 2020*

- Designed and implemented user features in a web-based user interface for command and control software system
- Built a token retrieval system to allow multiple users to manage control of the system via a command token
- Implemented a pop-up alert to notify the user of running background processes when leaving the web page user interface
- Implement security features to restrict users with insufficient read/write permissions from accessing certain widgets by using structural directives

PROJECTS

- **Movie Database Website**:
  - Interacted with the MySQL database to create tables, populate the database using our movie and actor data, add "integrity constraints" that the database should satisfy
  - Wrote a few PHP pages that execute various queries to find the information requested and to render the page in a user-friendly format
- **Restaurant Page**:
  - Created a dynamic and interactive restaurant website using DOM Manipulation, Vanilla JavaScript, HTML, CSS and Flexboxes
  - Users can show or hide the menu image by clicking on the leftmost arrow; this was achieved by adding an event listener to the arrow and toggling the image based on its previous state
- **Personal Portfolio Website**:
  - Created an aesthetic, responsive and informative personal website showcasing my experience and projects using React and Material-UI
  - Applied concepts such as React Function Components, React Hooks, CSS-in-JS, Material-UI themes, Flexboxes and Media Queries
- **Blogging Web Application**: A web application that is written using the MEAN stack that allows users to create, read, update, delete posts
  - Implemented a blogging server using Express, MongoDB and NodeJS that saves and publishes blog posts written by the markdown-editor client
    - Verified users' login credentials and established an "authenticated session" by setting a transient session cookie; the cookie is created as a JSON Web Token
    - Wrote a REST API that allows the front-end to perform CRUD operations on the blog posts
  - Implemented a front-end markdown blog editor and preview as a single-page application by using Angular as the front-end framework
    - Used Angular **Router** to enable navigation from one view to the next as user perform application tasks; for example, after a post is deleted, the updated list pane should now be shown, the user does not need to refresh the page to see the changes
    - Created **services** to perform HTTP requests by using the API set up by the backend to perform CRUD operations on blog posts

ADDITIONAL EXPERIENCE & ACTIVITIES

- UCLA MentorSEAS
  - Act as a mentor to a small of group first-year students in computer science by giving them guidance and lessons learned to help ease the learning curve of UCLA Engineering
- Association for Computing Machinery(ACM), UCLA