Benjamin Ku

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WORK EXPERIENCE

Software Developer Intern @ *eWorld Enterprise Solutions*   Jul 2023 → Dec 2023
Java, AngularJS, Springboot, Jira, Bitbucket
- Collaborated with the Department of Transportation Airports division to develop a full-stack web-application to reduce around a week's worth of manual document entry for 400+ users.
- Participated in daily standup meetings to provide updates within current progress of Jira tickets and identify possible obstacles that could impact workflow within the team.
- Conducted regression testing to verify the proper functionality of the application, ensuring user experience and robust performance.
- Implemented solutions using AngularJS and Spring to manage UI, ensuring intuitive navigation, and efficient RESTful API request handling to backend databases.

PERSONAL PROJECTS

Neural Network Pressure Prediction | *Python, Numpy, Matplotlib, TensorFlow*   Nov 2023 → Dec 2023
- Pre-processed CSV data collected from IR camera and pressure sensor readings, creating correctly shaped vectors.
- Wrote Python scripts to dynamically apply a perspective correction algorithm for a colormapped dataset of 40+ files.
- Collaborated with another student to create an Autoencoder network that attained a 73.5% accuracy in predicting pressure maps from IR frames.

Jobseeker | *Nextjs, Django, Django Ninja REST Framework, MaterialUI*   Aug 2023 → Oct 2023
- Expanded web development experience by building a full-stack, jobseeker web application with integration of several frameworks that allows users to connect as either a *seeker* or *employer* to view/post job listings.
- Utilized Django Ninja to write RESTful API endpoints, effectively handling HTTP requests and separating logic of the web application between frontend and backend services.
- Implemented robust user authorization via JWT authentication, ensuring secure access and protecting sensitive user information.

Social Network | *React.js, Django, Bootstrap*   Mar 2023 → Apr 2023
- Gained web development experience by developing a full-stack social networking app that connects users and views posts utilizing Django and React.
- Leveraged user-generated content through posting, liking/unliking posts, and user following functionalities, with data storage managed within a SQLite database and accessible via RESTful API endpoints.

EDUCATION

University of Hawaii at Manoa   Aug 2021 - Dec 2023
Bachelor of Science Mechanical Engineering   *Cum Laude*

CERTIFICATIONS

⬈ CS50x: Introduction to Computer Science   2022
⬈ CS50w: Web Programming with Python and JavaScript   2023
⬈ CS50SQL: Introduction to Databases with SQL   2023

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML/CSS, SQL, C
Frameworks/Libraries: Nextjs, React, MaterialUI, Tailwind, Bootstrap, Django, Flask
Misc: Visual Studio Code, Git, Github Desktop, Google Colab, Postman, Jira