

Bill Chan

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WORK EXPERIENCE

Cal Poly Computer Science & Software Engineering Department

March 2022 – April 2024

Undergraduate Researcher

San Luis Obispo, CA

- Maintained and optimized a large-scale MySQL database of 200,000 entries, improving query times and reliability
- Trained machine learning models (Random Forest, AdaBoost, Voting-Classifer) to support research analysis
- Implemented Python scripts for web scraping, data processing, analysis, and visualization

JackRabbit

September 2023 – March 2024

Fullstack Web Developer Intern

San Luis Obispo, CA

- Integrated Stripe Payout and Refund API using JavaScript and Python, streamlining payment processing
- Implemented functionality to efficiently store 100+ data entries using PostgreSQL databases, optimizing data management and accessibility
- Participated in Agile sprints, sprint planning, and peer code reviews to improve feature delivery speed

PROJECTS

Moodi: Built responsive webapp integrating OpenAI API to suggest personalized song recommendations according to users' moods and preferences. Integrated with music APIs like Spotify or Apple Music for playlist additions

toDoList: Implemented webapp routing with React frontend and Express.js backend. Collaborated with team members to implement dynamically updated color-coded tasks. Set up Azure deployment

Aquarium Simulator: Leveraged object-oriented programming (OOP) principles in Java to manage entities, each employing distinct pathfinding algorithms such as A* and Dijkstra. Implemented inheritance to improve code organization and movement keys for entity control for interaction within the simulation

EDUCATION

California Polytechnic University - San Luis Obispo

Graduation: June 2024

B.S. in Computer Science

Relevant Coursework: Data Structures, Project-Based OO Programming and Design in Java, Design and Analysis of Algorithms, Computer Architecture, Systems Programming, Data Science, Database Systems, Software Engineering, Operating Systems, UI/UX, Deep Learning, Web Development

SKILLS

- **Programming Languages**: Python, Java, Typescript, Javascript, SQL, HTML5, CSS
- **Frameworks/Libraries**: React, Express.js, Node.js, Django, PyTorch, Lit, Scikit-learn, Pandas, Matplotlib, BeautifulSoup, NumPy
- **Technologies**: Git, Jira, MongoDB, Django, Node.js, Microsoft Azure, Selenium