Bryant Tan

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EDUCATION

University of California San Diego, Jacobs School of Engineering　　　　　　　　　　　　　　**La Jolla, CA**

Bachelor of Applied Science, Computer Science　　　　　　　　　　　　　　　　　　　　　　December 2024

Shoreline Community College　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Shoreline, WA**

Associate of Arts, Computer Science　　　　　　　　　　　　　　　　　　　　　　　　　　　　　May 2021

　　　　Awards: President's List

EXPERIENCE

UC San Diego, Jacobs School of Engineering　　　　　　　　　　　　　　　　　　　　　　**La Jolla, CA**

Undergraduate Researcher　　　　　　　　　　　　　　　　　　　　　　　(September 2022 – July 2023)

- Conducted extensive investigations into potential solutions of a document efficiency problem at the International Student Programs Office at UCSD, employing innovative language models such as BERT, RoBERTa, DeBERTa V3, and LayoutLM, ultimately selecting the most high-performing approach for the specified task which resulted in a published paper.
- Developed a novel approach by integrating question answering techniques with layout information, optimizing the model to cater specifically to the identified problem (Retrieval of specific fields in a job offer letter and auto signature).
- Transformed the solution into a user-friendly software package tailored for utilization by ISPO staff, facilitating efficient document processing and providing a compelling demonstration of its capabilities.

Alpabit Digital Inovasi – *Software engineer intern*　　　　　　　　**Jakarta, Indonesia**　(July 2021 – September 2021)

- Collaborated closely under the guidance of a senior engineer, rapidly learning new features to finalize a web application effectively.
- Contributed to the development of a customer loyalty programs application for a leading client, enhancing business performance and customer engagement.
- Focused on front-end development, utilizing JavaScript to create responsive and user-friendly interfaces.

PROJECTS

RecipeGen　　　　　　　　　　　　　　　　　　**La Jolla, CA**　(September 2023 – December 2023)

- Part of a collaborative effort within a cross-functional team to develop a voice-activated recipe generation application using Agile framework for effective team collaboration, iterative development and rapid feature implementation
- Integrated ChatGPT 3.5, Dall-E 3, and Whisper Jax AI models to enable voice-based user inputs for meal types and ingredients, generate recipes and pictures of the recipe.
- Implemented database architecture using MongoDB, incorporating login functionality and a multi-server feature to empower users to save, access, and modify recipes in real-time and designed frontend using JavaScript.

Intelli.　　　　　　　　　　　　　　　　　　　　**La Jolla, CA**　(November 2024 –Present)

- Spearheaded the development of an autonomous grading web application as part of a cross-functional team, enabling instructors to upload grading schemes and student answers to automate grading. Adopted the Scrum framework for iterative development.
- Took full ownership of front-end development, utilizing ReactJS and Tailwind CSS to create a responsive, dynamic, and user-friendly interface. Including original design and implementing seamless UI features to enhance user experience and streamline workflows. (Front end can be found at https://b4tan.github.io/Intelli/)
- Completed features such as login/signup and database connection using MongoDB – (backend is not hosted).

ORGANIZATIONS

TRITON QUANTITATIVE TRADING　　　　　　　　　　　　**La Jolla, CA**　(March 2024 –June 2024)

- Gained hands-on experience in trading fundamentals and algorithmic trading strategies, designed and implemented trading bots to optimize market analysis and execute trades efficiently and conducted data-driven analysis of algorithm.

TREND UCSD　　　　　　　　　　　　　　　　　　**La Jolla, CA**　(October 2024 –Present)

- Part of the web development team and collaborated closely the UI/UX design team and magazine editors to improve interface and handled domain migration.

SKILLS

Programming languages: Java, Python, C, C++, HTML, CSS, MySQL, R, JavaScript, UNIX, TypeScript

Libraries: Tensorflow, Pytorch, Sklearn, NumPy, Keras, Pandas, ReactJS, NextJS, TailwindCSS, Junit, Framer-motion