(Harry) Chun Hang Chan

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EDUCATION

University of California, San Diego   **La Jolla, CA**
Bachelor of Science   *Expected Jun 2024*
MAJOR: COMPUTER SCIENCE
Coursework: Software Engineering, Design and Analysis of Algorithms, Advanced Data Structures, Object-Oriented Design

SKILLS

Programming Languages: C++, Java, Python, JavaScript, HTML, CSS, C, x86 Assembly
Frameworks: ReactJS, Node.js, Express, Spring Boot, NumPy, Pandas
Databases: MySQL, DynamoDB, MongoDB, Redis
Tools: AWS EC2, Lambda, Kubernetes, Heroku, Visual Studio, GitHub

EXPERIENCE

Software Development Engineer Intern   **Pasadena, CA**
RMDS LAB (https://grmds.org/)   *Jun 2022 – Sep 2022*
- RMDS Lab is a global community to inspire data scientists to collaborate and also a NFT marketplace for Science IPs
- Developed the NFT minting experience and workflow. Implemented a **React JS** frontend for the minting wizard, designed and applied RESTful web services for the minting business logic in **Java** and **Spring Boot**
- Designed, executed and launched a new recommendation system for the NFT Marketplace to promote NFT items to users in the community website with **Python** using libraries including **NumPy, Pandas, pymysql**
- Conducted research on techniques of recommendation systems and made suggestions on enhancing user experience
- Performed tests on minting NFTs using NEAR blockchain at the NFT marketplace and provided feedbacks
- Tested existing user recommendation system on the community website and identified system issues to report

PROJECTS & ACTIVITIES

National Park Review System, Web Developer Bootcamp Project   *Nov 2022 - Mar 2023*
https://parkpassport.herokuapp.com/
- Four-month full stack web development project to create a responsive, yelp-like application for national parks
- Created and launched features across the entire application, which includes listing, multi-media, review and rating, user authentication, and security features
- Implemented the frontend components, interactions in **JavaScript**
- Developed and integrated the business logic API for all features in **Express** and **NodeJS**
- Designed, built and deployed a **MongoDB** storage for persisting entities of the application
- Launched the full stack web application on Heroku and set up deployment automation, security and metrics

Text-to-Speech Reader, Personal Project   *Oct 2022*
https://ttsr.netlify.app/
- Developed a web application that allows users to convert text to speech using **HTML, CSS,** and **JavaScript**
- Implemented text parsing and text-to-speech conversion using the **Web Speech API**, a browser-based API that provides speech synthesis functionality