Jacky Chen

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EDUCATION

Stony Brook University
Bachelor of Science in Computer Science

Stony Brook, NY
Expected May 2023

Relevant Courses: Data Structures, Systems Fundamentals 1, Programming Abstractions, Fundamentals of Software Development, Linear Algebra, Calculus 2, Foundations of Computer Science, Probability and Statistics, Analysis of Algorithms

EXPERIENCE

Undergraduate Teaching Assistant: Computer Science Department — December 2020 – Present
Stony Brook University — *Stony Brook, NY*
- Successfully supported over 220 students in a course that covers the fundamentals of Object Oriented Programming and Data Structures, along with various paradigms and techniques of programming.
- Hosted weekly labs that taught students about code structure and use of systematic software debugging and testing techniques to efficiently identify issues in their assignments.
- Facilitated student learning and engagement through weekly office hours and resolved additional concerns through discussion boards and emails.

Software Engineering Intern — June 2020 – Aug 2020
United Health Group: Optum — *Raleigh, NC*
- Lead an 8-person development team overseeing all aspects of the development process through the use of agile methodologies, decreasing overall development time by over 30%, while successfully adding 4 extra core features throughout the sprints.
- Successfully aided in optimizing a search algorithm to efficiently query, match, and manipulate data in the database, resulting in an accelerated experience for the user.
- Incorporated react-native to build a customized and intuitive user interface to prototype to company executives, leading to a potential launch of the product to the company's 120 million customers worldwide.

Information Technology Intern — Jun. 2018 – Aug. 2018
DB Grant Associates Inc — *Brooklyn, NY*
- Successfully led 10 interns in efficiently finding over 700 bids on office equipment like computers, laptops, firewalls, monitors, and telephones for the company. Successfully communicated with 4 top administrators in getting the best deals for the company, saving the company about $7500 worth of equipment.
- Revamped the reorganization of the old cabling of the company, completing the project in 50% of the allotted time, resulting in savings upwards of $10,000 in cable damages and fees.
- Successfully researched and managed 60% of the offices admin accessible software and virus conflicts, successfully preventing 2 virus conflicts, resulting in the company saving over $5000 in damages.

PROJECTS

Real Estate Analysis Web App | *React, MongoDB, ExpressJS, NodeJS, JWT* — Nov 2020 – Present
- Developed the back end CRUD API for the web application to effectively manipulate and fetch data from the Mongo database.
- Created multiple models for the User and Property documents using the mongoose library.
- Utilized JSON Web Tokens to efficiently authenticate and secure the web application through cookie generation.
- Designed and implemented the frontend user interface and navigation using react-navigation and the figma design software.

CliqueIO: Startup Networking Platform | *Python, Django, PostgreSQL, HTML, CSS* — June 2020 – Aug 2020
- Developed a full-stack web application using the Django Framework
- Implemented the user dashboard feature to allow job postings and application reviews.
- Created a CRUD API to allow the efficient fetching and storing of posts, likes, and comments, resulting in 5 times more engagement on the platform.
- Successfully implemented the the chat feature using redis and socket.io, which allowed for efficient and secure messaging throughout the platform

TECHNICAL SKILLS

Languages: Java, Python, SQL (Postgres)
Web Development: HTML/CSS, JavaScript, ReactJS, NodeJS, ExpressJS
Others: Git, Firebase, MongoDB, Scrum Methodologies, React Native