

# Jun Shern Lim

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## SKILLS

**Coding:** Java, C, Python, JavaScript (React, Angular, JQuery, Knockout, Node, Express), HTML, CSS, SQL (MySQL, PostgreSQL, SQLite), NoSQL (MongoDB), Bash, MATLAB

**Technologies:** Git, Atlassian (Jira, Confluence, Bitbucket), Heroku, Firebase

**Concepts:** Rest APIs, Websockets, Software Development Life Cycle, Agile, Scrum, Server-Side Logging, Data Structures, Algorithmic Analysis, Information Systems, Computer Architecture, EE Fundamentals

## PROFESSIONAL EXPERIENCE

### Hewlett Packard Enterprise

San Jose, CA

Software Engineering Intern || Tech Stack: Java, JavaScript (JQuery, Knockout), HTML, CSS

May 2023 – Aug 2023

- Engineered a customer-facing debugging utility that streams selected server logs to the user interface in real-time, allowing for more productive debugging and customer escalation sessions
- Built a feature to dynamically modify the severity level of logs for individual processes in the sever, enabling long-term log monitoring whilst minimizing server storage
- Implemented a filter to detect and log all incoming HTTP requests, allowing engineers to identify web clients causing internal server errors

### Purdue University, Elmore Family School of Electrical and Computer Engineering

West Lafayette, IN

Undergraduate Teaching Assistant – ECE36800 Data Structures

Aug 2022 - Present

- Revised course content and conducted code reviews, helping 150+ students each semester

Undergraduate Teaching Assistant – ECE20001 Electrical Engineering Fundamentals I

Jan 2022 – May 2022

- Mentored 200+ students on linear & first order circuit analysis

## PROJECTS

### Itembnb

Jan 2023 – May 2023

Tech Stack: MongoDB, Express, React, Node || GitHub: <https://github.com/Jun0610/Itembnb>

- An item-sharing website that allows users to lend and borrow everyday items for a price
- Designed a MongoDB schema which served as the reference point of the app's development and allowed for further incremental development following scrum methodologies
- Created REST APIs to support frontend functionalities including reserving items, creating user accounts, making item posts, etc, resulting in streamlined and successful scrum sprints
- Implemented features to search, sort, filter and categorize item posts to enhance user experience
- Built an item progress tracker to keep users updated on the status of items they have borrowed/lent

### Streaming Service Database

Sep 2022 – Dec 2022

Tech Stack: Django, MySQL, HTML, CSS || GitHub: <https://github.com/meghnakr/Streaming-Database>

- A web client that aims to emulate how streaming services manage metadata of media items
- Designed MySQL store producers that run automatically when media items are added to the app, ensuring data across all tables is consistent and accurate
- Created ACID transactions with appropriate isolation levels to allow concurrent processing of media metadata in the database without affecting data integrity

### File Compression/Decompression Software

Jun 2022 – Jul 2022

Tech Stack: C & Makefile || GitHub: <https://github.com/Jun0610/text-compression-decompression>

- Developed a terminal-based file compression software utilizing the concepts of [Huffman Coding](#)
- Automated software compilation using Makefile, expediting the process of generating an executable

## EDUCATION

### Purdue University

West Lafayette, IN

Bachelor of Science in Computer Science

May 2024

- CGPA 4.0/4.0, Dean's List & Semester Honours for 6 semesters

## ACTIVITIES & AWARDS

Purdue Varsity Men's Crew (ACRA – All Academic First Team)

Jan 2021 – Aug 2022

HackIllinois 2022 at The University of Illinois Urbana-Champaign – Participant

Feb 2022

AT&T 5G Indianapolis Hackathon – Finalist & Honourable Mention

Oct 2021

Purdue Investment and Trading Club

Jan 2021 – May 2021