SHENG HAO

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SELECTED PROJECTS

Rate My Property [NodeJS, Express, MongoDB]
(Visit: http://34.218.112.35/ , git repo: https://github.com/hoooowsh/RateMyPropertyWebDev)
- Worked as a back-end developer to build a platform that lets users review properties anonymously
- Designed and developed the REST APIs, connected with MongoDB, and wrote unit tests for each endpoint
- Practiced various Agile ceremonies using JIRA. Helped organize and plan sprint demos and retrospective

BroadCast-Fuzzer [Python]
(Git repo: https://github.com/hoooowsh/broadcast-fuzzer)
- Designed and created a black box testing tool for Android applications by fuzzing Broadcast Receiver components
- Implemented a random data generator to create jpg, mp4, and txt data
- Detected a crash on the Telegram android app along with abnormal behavior on other fuzzed apps

Multiplayer dungeon crawler game [Unreal Engine, Blueprint, C++]
(Download: https://store.steampowered.com/app/1576880/Synthbiotic_Dungeon/)
- Designed and implemented dungeon shop, mini-map, character skills, etc.
- Collaborated with artists and other programmers to integrate the game and publish it on the steam store.

TECHNICAL SKILLS

Programming: Java, Python, JavaScript, C#, C++, C

Web Technologies: RESTful APIs, HTML, CSS, NodeJS, Spring Boot, React, NextJS, Express

Databases: MongoDB, SQL, MySQL, Firebase Realtime DB

Game Development Tools: Unreal Engine, Unity, Game Maker Studio, Maya

Others: Git, CI/CD, Firebase, Linux, Docker, AWS, Postman, Stripe, Twilio

EDUCATION

University of Waterloo   *Sept 2021 – Dec 2022*

MEng Electrical & Computer Engineering (**Specialization** in Software Engineering)

Cumulative GPA: *89 / 100*

University of Utah   *Jun 2017 – May 2021*

B.S. in Computer Science (**Emphasis** in Entertainments Arts & Engineering) | **Minor** in Mathematics

Cumulative GPA: *3.77 / 4*

WORK EXPERIENCE

Cynorix (Cynorix Share, Cynorix Share_V2, Google Drive Share, OneDrive Share)   Waterloo, ON
Full-stack developer [NodeJS, React, Express, Firebase, MongoDB, Stripe, File Encryption]   *Oct 2022 – now*
- As the head of the technical team, led the development of a secure file sharing platform that included robust security features, user authentication and management systems, and integrated payment functionality
- Took charge of modifying the core encryption algorithm, established a reliable CI/CD pipeline to improve the efficiency of the development and deployment process
- Utilized third-party APIs from to seamlessly integrate the platform with popular cloud storage services like Google Drive and OneDrive
- Led a team of co-op students using Agile methodologies to create road maps and sprint plans. Let the team to achieve project milestones and deliver a quality product on time

University of Utah   Salt Lake City, UT
CS Tutor [Java, Python, Algorithms, SQL, Game Development, etc.]   *Jan 2020 – May 2021*
- Facilitated students' learning by explaining complex concepts and providing hands-on guidance with coding exercises. Supported my peers in achieving academic success and gaining confidence in their abilities within the CS program

Shanghai Infinity Junction Design   Shanghai, China
Onsite and remote tech support [Java, MySQL, Python]   *Jul 2018 – Aug 2020*
- Worked in a team to give tech support to the company, including helper script writing and software supporting
- Helped the team to develop and maintain the web-based applications for the company