

Hsu Shen (Angus) Lee

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Skills

Core Languages

- Java, JavaScript, Python, C/C++, C#, Solidity

Frontend

- ReactJS, NextJS, AngularJS, Chakra-UI, Framer-Motion

Backend

- NodeJS, ExpressJS .NET, SpringBoot, GraphQL

Databases

- MongoDB, MS SQL Server, PostgreSQL, Neo4j, Firebase

Unit Tests & CI/CD

- Karma, Specflow, GoCD, Github Actions with Docker

Debugging Tools

- Dev Tools, VS Debugger, MS Server Profiler, GDB

Experiences

Software Developer *JavaScript, C#, MS SQL Server, Karma, Specflow, GoCD, Dev Tools*

May 2022 – Present

Taq Automotive Intelligence · Co-op Internship

- Developed and maintained the Credit Driver that created over 50K Vehicle lease deals throughout Canada according to lenders' requests, added features and corresponding toggles while modifying C#, JS, SQL, XML, and PS1 files.
- Ensure the Credit Application is bug free by writing unit tests and Specflow tests, testing in different environments (local, QA, UAT, PROD), and conducting manual testing by navigating the UI and running queries.
- Communicated closely with Quality Assurance, Project Leads, DevOps team, and developers from other teams to fix bugs, debugged by stepping through code and event logs on GoCD pipelines, and conduct deployments to Production.

Teaching Assistant (MATA30, MATA32, CSCA67) *Calculus, Discrete Math*

Jan 2022 – Present

Department of Computer and Mathematical Sciences · University of Toronto

- Planned and executed Tutorials and Office Hours every week, explained problems with clarity and patience, marked over 550 Students' quizzes, and created quizzes that were written by over 130 students.

Relevant Projects

Earn By Replying (Ongoing) – Web3 Networking App *React.js, Node.js, MongoDB, Solidity, Ganache, Chakra-UI*

- Decided the structure and implemented over 90% of the Web2 part, using a three-tier architecture for frontend and backend while designing a modern UI, resulting in positive feedback from professionals in IVS Crypto 2022.
- Worked as a team with 2 teammates remotely, used git as version control and Notion as a document management tool, implementing agile methods by holding meetings twice a week and using Kanban for task management.

Being Seen App – A Mobile App for the Homeless Youth *Java, SpringBoot, MongoDB, Android Studio, StripeAPI*

<https://github.com/UTSCSCC01/projectf21-gmt-8-gang>

- Outlined the app structure using the MVC model and implemented the controller, frontend API, and UI using java and XML in Android Studio while helping others debug, resulting in #1 contributor out of 7 team members.
- Designed and developed efficient REST APIs using Java Spring Boot and performed CRUD Operations on MongoDB, along with features such as JWT token validation and online payment with StripeAPI.

Last Minute Shop – A Shopping Website *React.js, MongoDB, Three.js, StripeAPI, Material-UI, GraphQL*

- Implemented the frontend with features such as: photo upload, camera shot, drag and drop, online payment with Stripe, authentication, and a reactive 3D figure and background with ThreeJS.

Predicting VIX and Underlying Forces of Regime Switching Phenomenon *Python, Numpy, Sklearn, Pandas, Seaborn*

<https://github.com/drunkest/VIX-Report>

- Analyzed features of regime switching phenomenon and wrote a report of 44 pages using both theoretical and practical self learned techniques, resulting in a 100 score in the course and an appreciation note from the instructor.
- Found optimized parameters for Gaussian Mixture Distributions and probability transition matrix for the regimes, preprocessed data by hand, implemented and evaluated four models using Cross Validation and statistical methods.

CuteCat VS. LingChieh - A Monopoly-like 2D Board Game App *C/C++, SFML, Makefile, Git, Github, Agile*

Laser & Lightning – A 2D Horizontal Scrolling Game *MIPS (Assembly)* <https://youtu.be/EktwFTGCgSk>

Education

University of Toronto

Sep 2019 - Present

Candidate, Honour's BSc - Computer Science, Specialist in Software Engineering (CGPA: 3.69)

Awards

Dean's List

2020, 2021