

Kevin Shi

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EDUCATION

UNIVERSITY OF TORONTO | Graduated June 2020 | Toronto, ON

Honours Bachelor of Science in Computer Science, Minor in Mathematics

- Graduated with Distinction

EXPERIENCE

TRELLIS STUDIOS | Full Stack Engineer

September 2020 – Present | New York, NY (Remote)

- Developed a web browser game with live video chat to help remote teams build rapport using Vue.js, TypeScript, and a Serverless back-end
- Implemented front-end designs according to UI/UX design mocks and engineering specifications
- Maintained various AWS cloud services including IAM accounts, Cloudfront distributions, DynamoDB, Lambda, and S3
- Configured CI/CD pipelines with YAML to build, test, maintain, and deploy code
- Assisted with the integration of Stripe API to handle customer subscriptions, and online payments

HARVEST MEASUREMENT | Full Stack Engineer

May 2017 – August 2018 | Hamilton, ON

- Developed a user friendly web interface for a system which monitors the buildup of dangerous barn house gases using TypeScript, React, Node.js, Express.js, and MySQL
- Collaborated with hardware engineers and product testers to stay current on expected features
- Restructured MySQL database with relational models to reduce redundancy and improve performance
- Incorporated search algorithms to dramatically improve front-end responsiveness
- Automated the migration of onsite data from files into databases using bash scripts

PROJECTS

CHESS HELPER | [kevinshi97/chesshelper](https://github.com/kevinshi97/chesshelper)

- Developed an application which processes an image of a chess board and suggests the best move to the user with Python, PyTorch, OpenCV, and Stockfish API
- Incorporated edge detection and feature extraction to identify key objects within an image
- Engineered a CNN classifier to identify pieces and return correct board states with an error of 1%
- Demonstrated techniques which improve the accuracy of a CNN when sample size is limited (80 images)

PUBLICATIONS

- Surprisingly Popular Voting Recovers Rankings, Surprisingly! [Presented at IJCAI-2021](#) | [arXiv](#)

SKILLS

- **Programming Languages:** Bash, C/C++, Java, Julia, MATLAB, Python, R, SQL
- **Web Languages/Frameworks:** HTML, CSS, JavaScript, TypeScript, React, Node.js, Vue.js
- **Misc.:** AWS, Gitflow, \LaTeX , Linux Systems, Microsoft Office Suite, Photoshop