

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
- Awarded the President's Entrance Scholarship

EXPERIENCE

TRELLIS STUDIOS | Full Stack Engineer

September 2020 – Present | New York, NY

- Developed a browser game with fully integrated video chat to keep remote teams connected using Vue.js, TypeScript, and a serverless back-end
- Implemented front-end designs according to UI/UX design mocks and engineering specifications
- Managed certificates, Cloudfront distributions, IAM accounts and other Amazon Web Services including DynamoDB, Lambda, S3
- Executed automated tests with CI/CD in addition to manual software testing to ensure the deployment of quality code
- Incorporated Stripe API with existing application to handle online payments

HARVEST MEASUREMENT | Full Stack Engineer

May 2017 – August 2018 | Hamilton, ON

- Developed a user friendly web application which displays the results for a system which monitors the buildup of heat and dangerous gases using TypeScript, React, Node.js, Express.js, and MySQL
- Collaborated with developers and product testers to stay current on product features and intended functionality
- Restructured MySQL database with relational models to reduce redundancy and improve performance
- Incorporated search algorithms to drastically improve front-end responsiveness
- Automated the migration of onsite data from files into databases with bash scripts

PROJECTS

CHESS HELPER | [kevinshi97/chesshelper](#)

- Developed a application which takes an image of a chess board and returns the best move using 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! (Forthcoming 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