

Harry Chen

4TH YEAR CIVIL ENGINEERING

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Skills

Languages	JavaScript, HTML/CSS, Python, MATLAB, Java
Development	React, Node, Express, EJS, MongoDB, Heroku, Firebase, SASS
Other Software	VISSIM/Synchro (traffic network modelling), Civil3D/CAD (alignments, grading, pipe networks, vehicle tracking)

Projects

YelpCamp

[View Project](#)

FULLSTACK DEVELOPMENT

Nov. 2021 - Mar. 2022

- A complete web app like Yelp for camping - create accounts and perform CRUD operations for campgrounds, photos, and reviews.
- Developed using Express and Node, connected to MongoDB, and deployed with Heroku.
- Hashes and salts all users and their passwords for security.

SiteSticky

[View Project](#)

CHROME EXTENSION - DESIGN AND DEVELOPMENT

Feb. 2022 - Apr. 2022

- A lightweight browser extension leveraging Chrome API, HTML & CSS to keep track of notes using Chrome storage.

Personal Portfolio Website

[View Project](#)

FULLY RESPONSIVE SITE WITHOUT A COMPONENT LIBRARY

Apr. 2022 - current

- Utilized React and HTML/CSS (SASS) to create a portfolio website with detailed transitions and versatile components.

Experience

SCS Consulting Group

[Markham, ON](#)

SITE PLAN DESIGNER

Jan. 2022 - Apr. 2022

- Developed custom functions and smart labelling systems in Civil3D to reduce site plan drawing setup times by over 60%.
- Researched municipal and regional standards for streamlining sewer and stormwater pipe design, reducing turnover time on design projects by over 50%.
- Optimized workflow of site plan team by creating schedules and assisting in drawing reviews, reducing time delays by 25%.
- Utilized Civil3D, AutoCAD, Excel VBA, and Land Development Toolkits to complete design work to meet tight deadlines.

York Region - Corporate Services

[Newmarket, ON](#)

DEVELOPMENT ENGINEER

May 2021 - Aug. 2021

- Purged over 90% of backlog of stale security files from land developers by efficiently digitizing old files and reviewing drawings/documents, and processed over \$500 000 in security returns
- Optimized review of pre-submission consultation documents using flowcharts to double project turnover speeds
- Completed reviews of development sites and assisted land developers in expediting drawing submissions.

Regional Municipality of Durham - Public Works

[Pickering, ON](#)

SITE DESIGN COORDINATOR

Sept. 2020 - Dec. 2020

- Drafted preliminary design drawings for multiple major road reconstructions, saving over 400 billable hours.
- Researched design speed standards for presentation to regional executives to revise design standards to maintain driver safety.

ARK Group Construction

[Toronto, ON](#)

PROJECT MANAGER

May. 2019 - Aug. 2019

- Pioneered use of Excel VBA formulas and macros to process over 150% more project estimations and takeoffs.
- Personally managed two 1MM+ renovation projects by overseeing labourer workflows and material management, completing project stages 4-5 days ahead of schedule.

Education

University of Waterloo

[Waterloo, ON](#)

CIVIL ENGINEERING (BASC)

Sep 2018 - Apr 2023 (expected)

- Maintained excellent academic standing throughout all semesters (3.7 GPA)
- Active involvement in extracurriculars such as Chinese Student Association, Steel Bridge Team, and SERVE Volleyball Club
- Outstanding or Excellent rating on all previous work term internships