

NATHAN HOWES, P.ENG.

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Full stack developer with a decade of environmental engineering, project management, and problem-solving experience. Earned a certificate in Full Stack Web Development from the University of Toronto School of Continuing Studies Coding Boot Camp. Strong communication and time management skills

TECHNICAL SKILLS

- | | | |
|-------------------|-----------------|-------------|
| • JavaScript ES6+ | • GitHub | • jQuery |
| • CSS3 | • MySQL | • Bootstrap |
| • HTML5 | • Express React | |
| • MongoDB | • Node | |
| • NoSQL | • Handlebars | |

PROJECTS

JUNE 2022

RIDE COMPARE | [HTTPS://GITHUB.COM/RGARRETTLEE/RIDE-COMPARE](https://github.com/rgarrettleee/ride-compare) |
[HTTPS://RGARRETTLEE.GITHUB.IO/RIDE-COMPARE/](https://rgarrettleee.github.io/ride-compare/)

- Purpose of the project: Develop an application which could compare the costs of a trip between ridesharing companies Lyft and Uber.
- Responsible for: Developed geocoding portion of project drawing on API to identify start and endpoints for ride sharing trip. Implemented calculation comparing Lyft and Uber.
- Technologies used: HTML, CSS, Javascript

JULY 2022

PLANT OVERFLOW | [HTTPS://GITHUB.COM/NATHANH635/PLANTOVERFLOW](https://github.com/nathanh635/plantoverflow) |
[HTTPS://BEAUTIFUL-GLACIER-BAY-92549.HEROKUAPP.COM/](https://beautiful-glacier-bay-92549.herokuapp.com/)

- Purpose of the project: Develop an application which could compare the costs of a trip between ridesharing companies Lyft and Uber.
- Responsible for: Developed upvote system to account for user upvotes and limiting upvotes to one per comment, per user. Developed routes for users, posts, comments, and profile.
- Technology used: Handlebars, CSS, Javascript, Node, MySQL, Bootstrap

EXPERIENCE

JULY 2012 – APRIL 2022

ENVIRONMENTAL ENGINEER/PROJECT MANAGER, TETRA TECH CANADA INC.

- Develop project proposals for municipal, industrial, and developer clients; prepare budgets in accordance with work scope, and manage projects and monitor budgets to completion.
- Review and interpret regulatory documents including Environmental Protection and Enhancement Act approvals and Alberta Energy Regulator Directives, and advise clients on appropriate project scopes to meet requirements.
- Manage and implement large-scale environmental programs including:
 - Developed a remediation plan for an operating site based on technical and budgetary requirements, using cost-effective remediation measures and appropriate regulatory framework to plan efficient and effective remediation.
 - Managed a large-scale remediation at an urban redevelopment site in Calgary involving the excavation and management of a large amount of historical fill material exhibiting petroleum hydrocarbon and metals impacts.
 - Managed and implemented an environmental management plan consisting of ongoing support during stripping and grading at a residential development site and contaminant discovery, and interface with contractors and regulators to identify regulatory needs.
 - Developed annual work scope and implemented large environmental groundwater sampling projects for oil sands facilities, including managing and coordinating staff for program including over 200 monitoring wells.
 - Prepared Remediation Action Plans and Risk Management Plans in accordance with regulatory requirements and guidance documents.
- Review data for numerous sites in Alberta, Saskatchewan, and British Columbia, and prepare and review annual environmental monitoring reports in accordance with provincial and federal requirements.
- Actively manage project changes due to unforeseen circumstances and liaise with clients to ensure changes in project scope are coordinated, approved, and implemented in a timely manner.

EDUCATION

AUGUST 2022

BOOT CAMP CERTIFICATE UNIVERSITY OF TORONTO SCHOOL OF CONTINUING STUDIES

A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, Javascript, JQuery, Bootstrap, Node.js, MySQL, MongoDB, Express, Handelbars.js, and ReactJS.

APRIL 2012

BACHELOR OF APPLIED SCIENCE, HONOURS ENVIRONMENTAL ENGINEERING, WATER RESOURCES OPTION UNIVERSITY OF WATERLOO

- Co-op program, involving six four-month work terms in the environmental industry.