

# KATE FURTNEY

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## SKILLS

- Understanding of multi-layer client/server applications using RESTful API design, C#, and ASP.NET.
- Proficient in using Java and object-oriented patterns.
- Strong understanding of querying and mutating data from relational databases.
- Experience with website design using HTML, CSS, and JavaScript.
- Organized and reliable, with years of experience planning tasks and leading others.
- Experience with Git and GitHub to store and publish personal projects.
- Team oriented, and capable of working on multiple projects simultaneously.

## EDUCATION

JAN 2022 - PRESENT

### COMPUTER PROGRAMMING AND ANALYSIS, FANSHAWE COLLEGE

- Dean's Honor Roll in all completed semesters with a 4.2 GPA.
- Designed a website to display bird sightings in Web Design course using HTML, CSS, and JavaScript.
- Built a RESTful full-stack application using C#, ASP.NET, JavaScript, MSSQL.

SEP 2013 – APR 2018

### BACHELOR OF CHEMICAL ENGINEERING, WESTERN UNIVERSITY

- Worked in a team to design a full-scale chemical plant over the course of 8 months. Was responsible for financing the plant over a 10-year period, individually designing and optimizing a vacuum distillation column, and simulating design in Aspen Plus software. Presented design to industry judges in an end of year competition and wrote a report detailing every aspect of the design.

## EXPERIENCE

JAN 2023 – APR 2023

### COMPUTER PROGRAMMER ANALYST IT CO-OP, CANADA REVENUE AGENCY

- In charge of setting up monthly reviews and troubleshooting issues using Visual Basic for Applications.
- Supported non-technical members by debugging issues and improving software tools.
- Trusted to be a self-starter with Visual Basic and inherited ownership of existing project scripts.
- Used SQL to support non-technical members client accounts by extracting and inserting data.

SEP 2021 – MAR 2022

### **EXTERMINATOR, INVASIVE PHRAGMITES CONTROL CENTRE**

- Managed spread of invasive phragmites in North London using herbicides. Planned schedule for treatment of phragmites cell sites, prioritizing sites with greater risk of spreading and impacting the surrounding environment.
- Wrote yearly reports for the City of London to summarize yearly work, highlight problem sites and outline a treatment plan.
- Programmed Excel functions to analyze multi-year data for the City of London to show the effects of multi-year treatment and plan future steps to be taken.
- Extracted and analyzed data using Excel from surveys of aquatic life at treatment sites to track effects of invasive species on wetland ecosystems.

**APR 2021 – SEP 2021**

### **ASSISTANT REVENUE CLERK, PINERY PROVINCIAL PARK**

- Provided training, assistance, and supervision of the daily operations of Student Revenue Clerks including preparing bank deposits, auditing shifts, and filing shifts.
- Assisted with the onboarding and software training of all student employees.
- Assisted with accounting for park revenue: provided weekly spreadsheets and pivot tables for Revenue Head Office detailing weekly park revenue and tracking discrepancies in attendants' shifts.
- Coordinated weekly change orders from the local bank; was responsible for collecting orders from various park divisions, placing and collecting orders from the bank, and distributing change back to each park division.

**SEP 2019 – DEC 2020**

### **EXTERMINATOR, INVASIVE PHRAGMITES CONTROL CENTRE**

**APR 2019 – SEP 2019**

### **ASSISTANT REVENUE CLERK, PINERY PROVINCIAL PARK**

**MAY 2017 – OCT 2018**

### **STUDENT ADMINISTRATIVE ASSISTANT, PINERY PROVINCIAL PARK**

## **PERSONAL PROJECTS**

### **PORTFOLIO AND BIRDING LIFE LIST, KATEFURTNEY.COM**

**GITHUB.COM/KATEFURTNEY/BIRDING-PROJECT**

- Designed a relational database to store bird sightings.
- Built a Node.js API for retrieval of data.
- Designed and built a web application to display personal information and bird sightings.
- Used GitHub and standard Git flow to manage code.
- Used GitHub actions to deploy application to Google's Cloud SQL and app engine.