

PATRICIA MIELNIK

Software Developer

pmielnik@edu.uwaterloo.ca

pmielnik.github.io

github.com/pmielnik

linkedin.com/in/pm-uwaterloo



Education

Bachelor of Computer Science

University of Waterloo

September 2017 - present

Bachelor of Business Administration

Wilfrid Laurier University

September 2017 - present



Work Experience

Software Engineer, Headend Team

Kaleidescape Inc.

January - April 2019

- Engineered and shipped an Android push notification service with **Firebase Cloud Messaging** to production, to deliver notifications to upwards of **15,000 customers** at a time in the most efficient manner
- Implemented a tool base in **Java** and refactored existing code to support modularized implementation of new notification types for email and any mobile platform
- Optimized **PostgreSQL** queries to efficiently select target customers for notifications

Developer, FutureMakers Team

Royal Bank of Canada

May - August 2018

- Self-learned **Python** to develop scripts to automate event calendar syncing between Meetup.com and internal FutureMakers site, saving an average of **8 hours / sync cycle**
- Designed and implemented an internal Speaker's Bureau to streamline process for recruiting speakers for RBC events



Projects

Greenicle

Hackathon API Prize Winner // [Project Link](#)

January 2019

- Built dashboard web app that allows users to track their personal vehicle emissions
- Integrated **SmartCar** and **Bing Search** APIs to gather relevant user data and communicate with front-end through a REST API built using **Flask for Python**
- **First place** out of 22 teams for best use of the Smartcar API at U of T Hacks

RBC Student Hub

Hackathon Winner // [Project Link](#)

August 2018

- Developed a mobile application that allows students to connect with one another based on personal and professional interests
- Designed an easy-to-operate user interface with **Figma** and by conducting user interviews
- Pitched idea in front of executive judges at RBC and **placed second** out of 25 teams in the RBC Summer Hack

Weather Report

Personal Project // [Project Link](#)

March 2019

- Created a **Python** script that sends a weather forecast from the **AccuWeather API** to users through Facebook messenger
- Leveraged **AWS Lambda functions** and **CloudWatch** services to deliver messages on a scheduled basis



Skills

Languages

Java, C++, Python, PostgreSQL, JSON, Bash, HTML/CSS, Scheme, MIPS

Frameworks

JUnit, SpringBoot, REST APIs

Tools

Microsoft Azure, AWS, Firebase, Git, Perforce, JIRA, Confluence, Squirrel SQL Client, VSCode, Eclipse, Figma, Photoshop, Linux



Activities

U of T Hacks

Prize Winner, 2019

Volunteer Notetaker
2018-2019

RBC + Microsoft Azure
Cloud Innovation
Challenge
Competitor, 2018

Intro to AI/ML
Presenter, 2018

New Venture Case
Competition
**Semi-finalist out of
1100+ students**, 2018

Math Orientation
Media Devisor, 2018

Concert Band
Flutist, 2010-2017

Youth Orchestra
Violinist, 2008-2017

Tennis, Swimming,
Skiing, & Photography