

# PATRICIA MIELNIK

## Software Developer

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## 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

Kaleidescape Inc. // January - April 2019

- Refactored existing code and implemented a tool base in **Java** to support modularized implementation of new notification types for email and any mobile platform
- Created 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
- Optimized **PostgreSQL** queries to efficiently select target customers for notifications

### Developer

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 // January 2019

- Used **SmartCar API** to build a dashboard web app that allows users to track their personal vehicle emissions and provides tips and encouragement to reduce environmental impact
- Integrated **SmartCar and Bing Search APIs** 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 // August 2018

- Created a mobile application that allows students to connect with one another based on personal and professional interests
- Designed a familiar user interface using **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 // 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, Linux



## Activities

U of T Hacks  
**Prize Winner**, 2019

RBC + Microsoft  
Azure Cloud  
Innovation  
Challenge  
2018

Intro to AI/ML  
**Presenter**, 2018

Hack Bloomberg  
2018

New Venture Case  
Competition  
**Semi-finalist**, 2018

Math Orientation  
**Media Devisor**, 2018

Concert Band  
Flutist, 2010-2017

Youth Orchestra  
Violinist, 2008-2017

Tennis, Skiing,  
Swimming, and  
Photography