BEN GAVRILOV

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EDUCATION

The University of Toronto | *Bachelor of Science in Computer Science & Statistics*   Toronto, ON
- **Cumulative GPA: 3.96** (last 2 years)   *September 2017 – April 2022*

EXPERIENCE

Relay Financial (Series A Startup)   May 2021 – August 2021
Software Engineering Intern   *Toronto, ON*
- Overlooked and implemented internal tooling components that reduced over 20 hours a week of engineering support for the customer service team by utilizing Node, React, Typescript, and AWS
- Streamlined internal tooling development processes by setting up robust CircleCI pipelines to schedule unit test automations, configure builds and deployments, and report logs to CloudWatch
- Saved over $37,000 USD by introducing the first transaction disputing functionality which allows internal users to dispute fraudulent account activity by integrating with QuickBooks, Xero, Finicity, Sardine, Middesk, and Gusto

The Royal Bank of Canada   May 2020 – August 2020
Technical Systems Engineering Intern   *Toronto, ON*
- Reduced daily log processing times by over 55% by creating a multithreaded Java program that iterates over hundreds of gigabytes of data in less than 20 minutes, replacing fragile legacy code
- Saved $35,000 CAD annually by automating an analyst's role by setting up a monitoring service for an internal server with agents tracking API calls, resource usage, and response time data
- Delivered applications using API calls from internal microservices that connect to the ELK (Elasticsearch, Logstash, Kibana) stack (NoSQL) through OpenShift (Docker, Kubernetes) automation

Bond Brand Loyalty   May 2019 – August 2019
Software Engineering Intern   *Toronto, ON*
- Developed dozens of stored procedures and scheduled tasks to query and report **Scotiabank Rewards** usage rates saving over 40 hours of manual labour weekly
- Designed, coded, tested, debugged, and documented around 10 JIRA tasks during 2-week sprints and overlooked their release into production through Jenkins continuous integration pipelines
- Developed front-end components consisting of over 30 rewards on the Scotiabank Rewards online catalogue using jQuery and Bootstrap infrastructures

ACADEMIC RESEARCH

Towards Automated Detection of Programming Misconceptions | *Undergraduate Researcher* May 2021 - Present
- Publishing and presenting data on the most prevalent misconceptions found in **Python** users globally
- progmiscon.org/misconceptions/Python | Supervised by **Dr. Anya Tafliovich**

PROJECTS

SportCred | React, Golang, Neo4j, MongoDB, Node   School Project – Fall 2020
- Architected a completely modular React & REST API **microservice** webapp to continuously deliver client expectations
- Delivered production ready project to real clients by leading a team of 5 developers using the scrum framework

Pathfinding Visualizer | JavaScript, Bootstrap, Node   Personal Project – April 2020
- Developed an interactive visualizer for weighted (Dijkstra's & A*) & unweighted (BFS & DFS) pathfinding algorithms
- bengavrilov.github.io/Path-Finding-Visualizer

Personal Website | JavaScript, Bootstrap, jQuery, Node   Personal Project – April 2020
- Created a portfolio site to showcase my qualifications, projects, and academia work (all with relevant hyperlinks)
- bengavrilov.com

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, C/C#, SQL (Postgres), NoSQL (MongoDB, Elasticsearch, DynamoDB), HTML/CSS
Frameworks: ReactJS, ExpressJS, Bootstrap, Node
Developer Tools: Unix (Linux), Git, Docker, Jenkins, CircleCI, OpenShift, AWS