

# DANIIL ZHILYAYEV

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## TECHNICAL SKILLS

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- **Languages:** Python, R, SQL, JavaScript, HTML, CSS, C, C++, Scheme, Racket
- **Libraries:** Pandas, NumPy, SciPy, Scikit-Learn, TensorFlow, Matplotlib, Flask, React, Angular, Node.js
- **Databases/Tools:** MySQL, PostgreSQL, MongoDB, Redis, Apache, GIT, TDD, AWS, Azure, Google Cloud

## EXPERIENCE

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### Mortgage Automator

Automation Analyst

Toronto, ON

May 2021 – Sep 2021

- **Client-Side Scripting:** Automated custom document processes using Python and JavaScript. Worked alongside the DevOps and Data Science team when maintaining the infrastructure processes for new business lines.
- **Hypothesis Testing:** Built quantitative statistical models to reveal non-intuitive relationship between funding distribution, credit card processing, status filters, and terminated loans. Presented the findings in a report.
- **Data Driven Decisions:** Collected and filtered data using decision trees, analyzed the investor payout reports, evaluated various sale funnels, and contributed to the reconstruction of the legacy business model.

### EduShare

Software Engineer

Waterloo, ON

Sep 2020 – May 2021

- **Application Security:** Delivered performance-driven and user-centric websites, ensured application security and compatibility to interact with multiple APIs and databases.
- **Web Optimization:** Rapidly prototyped new data processing capabilities to confirm integration feasibility into existing systems, while implementing SEO and AB testing strategies to improve effectiveness of marketing efforts.
- **UX/UI Design:** Directed software design and development across multifaceted team to meet client needs for functionality, timeline and performance.

### Hover Hub

Full Stack Developer

Toronto, ON

Jun 2019 – Sep 2019

- **Algorithm Analysis:** Independently constructed algorithms for the purpose of testing pre-existing back end elements using C, accomplished to identify errors within the program and resolve the previously found issues.
- **Code Efficiency:** Performed quantitative analysis within the program, ensured scalability of front-end elements by optimizing them for loading speed and performance, achieved to cut the program run time by 30%.
- **Digital Interface:** Re-engineered designer's wire frame into website elements while adapting to a framework known as Flask, ensured reliability, security, and comprehensibility of the source code through documentation.

### Firefly, Inc

Digital Marketing Specialist

Richmond Hill, ON

Dec 2019 – Mar 2020

- **Data Collection:** Actively mined data from the company's database using SQL to offer optimization and improvement in product development, marketing strategies, and business techniques.
- **Statistical Analysis:** Accumulated sales data using web traffic metrics such as link popularity, click-through rates, and cost-per clicks. Successfully delivered the gathered research through a presentation and comprehensive analysis done in R. Discovered various trends and relationships between user location, price of the product, targeted age group, and population density.
- **Automated Modeling:** Held responsible for updating ineffective marketing models using customer feedback and user inactivity as indicators. Generated a successful email funnel by applying a sorting algorithm in Python, which served as a catalyst for growth in revenue by 10% yearly and higher user volume on the website.

## EDUCATION

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### University of Waterloo

Bachelor of Mathematics, Data Science

200 University Ave W, ON

Expected Graduation: 2023