

# Matthew Sadecki

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## SUMMARY

Data-driven professional proficient in Python, SQL, Power BI, and UiPath automations, with experience in Azure services. Enjoys creating new technologies related to machine learning and finance.

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## TECHNICAL SKILLS

**Languages:** Python, SQL, Javascript, Java, C, PHP, and C#.

**Technologies:** Git, UiPath, MERN stack, HTML, CSS, Bootstrap, jQuery, Azure DevOps, and Docker.

**Python Libraries:** Flask, Tensorflow, Keras, PyGAD, Scikit-learn, Pandas, SciPy, NumPy, and more.

**Microsoft Tools and Expertise:** Office 365, Power BI, Azure Services

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## EXPERIENCE

**Associate - Business Systems Analysis at WTW (Full Time)** Aug 2021 - Present

- Developed and maintained UiPath automations for the yearly renewal of 4,500+ policies and for data-intensive client onboarding, generating new revenue and reducing months of manual work.
- Streamlined UiPath insurance renewal automations with Python; provided documentation and training for servicing teams to operate autonomously, allowing our team to prioritize other tasks.
- Developed B2B sales channel websites and proactively assisted clients via phone and email, ensuring 100% of policies were renewed prior to deadlines.
- Revamped and validated the rating engine for insurance programs to compute policy premiums.
- Developed SQL-based reports for an internal insurance platform, then migrated them to Power BI for enhanced interactivity, drill-down capabilities, and predictive analytics for key stakeholders.
- Gained familiarity with Azure DevOps and Azure-based services by managing deployments and collaborating with cross-functional teams to ensure data integrity and reliability

**Business Owner at Ivespark Solutions (Part Time)** May 2018 - Present

*Investing/Trading - IBKR Platform*

- Sold ~45-day, ~25 delta options on stocks and futures amid market swings, optimizing theta decay and risk by closing at targeted profits, achieving a near-perfect win rate.
- Developed a Keras neural network (NN) model, using custom loss functions and enhanced performance with the pyGAD genetic algorithm library to complement backpropagation and effectively target global optima on the solution surface using custom fitness functions.
- Backtested NN model using monthly out-of-sample segments; developed an overnight European session trading system with the IBKR API, incorporating bracket orders for risk management.

*Tutoring*

- Awarded Halton Summer Company startup grant in 2018 which through various forms of marketing helped the business grow to over 100 students tutored within 2 years.

**Teaching Assistant at Carleton University Full Stack Bootcamp (Part Time)** May 2022 - Nov 2022

- Supported students during office hours on topics related to HTML, CSS, Javascript, Bootstrap, jQuery, Media Queries, APIs, AJAX, MySQL, MongoDB, Express.js, React.js, and Node.js.

**Teaching Assistant at University of Toronto FinTech Bootcamp (Part Time)** May 2021 - May 2022

- Supported students on topics related to machine learning, algorithmic trading, APIs, and SQL.

**Mobile Application Developer Intern at HSB BI&I (Full Time)** May 2019 - Sept 2019

- Prepared recruiting event challenges through ETL, machine learning, and data visualizations.

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## EDUCATION

**B.A. (Honours) Applied Economics at Queen's University** Sept 2015 - Apr 2020

- Relevant Coursework: Econometrics, Data Analytics, Data Structures, Java, Python, C, Financial Risk Management, Cost-Benefit Analysis, Statistics, Labour Economics, Health Care Economics.

**Full Stack Web Development at University of Toronto** May 2018 - Nov 2018

- Developed full-stack web applications, practiced team collaboration, and version control.