Sourav Biswas

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Experience

Wish – *Software Engineer Intern*   San Francisco, California · Jan 2019 – Apr 2019
- Saved $2 million/year by enhancing order refund tools to prevent incorrect refunds
- Lowered repeat customer support cases 27% by improving server logic, cutting customer support costs
- Cut runtime for backfilling crons 98% by optimizing database queries and partitions
- Reduced page load times 50% by simplifying backend structure
- Cleared over 75 million unused customer support inquiries daily using Python crons
- Reduced audit times over 67% by enhancing internal tools to support hotkeys

BMO Capital Markets – *Quantitative Analyst*   Toronto, Ontario · Apr 2018 – Aug 2018
- Yielded a credit positive for BMO by developing the blockchain platform used in the first ever blockchain bond issuance in Canada – featured on Bloomberg, CoinDesk & Financial Post
- Built machine learning models to predict demand for US treasury bonds with Python & Scikit-Learn
- Created VueJS data visualization models for institutional clients to analyze the Canadian bond market
- Reduced loading times by 97% by improving web socket infrastructure & simplifying network calls
- Automated emails using C# scripts and job schedulers, saving hours of manual work

Sir John A. Macdonald S.S. – *Computer Science Instructor*   Waterloo, Ontario · Jun 2016 – Jun 2017
- Improved class attendance by 40% (50 to 70 students) through restructuring curriculum
- Designed & delivered weekly lessons on programming languages and computer science concepts

Projects

SumNotes
- Created a web app that autonomously takes summarized notes in lectures or meetings
- Won Hack the North 2017 – Best Use of Cockroach Database

BlockChainge
- Built a full stack decentralized fundraising platform on Ethereum for donations & crowdsourcing
- Reduced donation fees by 99% compared to traditional platforms

NBA Predictive Analytics
- Created a data visualization tool to help coaches detect areas of the court to prioritize defense
- Simulated players' shooting with machine learning using K-Nearest Neighbours

Education

University of Waterloo   2017 – 2022
Bachelors of Computer Science – Software Engineering Major
- Cumulative GPA – 4.0/4.0 (Dean's Honours List – 2017 & 2018)

Wilfrid Laurier University   2017 – 2022
Bachelors of Business Administration – Finance Major
- Cumulative GPA – 4.0/4.0 (Dean's Honours List – 2017 & 2018)

Skills

Python, Java, C, C++, C#, HTML/CSS, JavaScript (Node, jQuery, Vue, React), Git, Linux, Scheme, SQL, MongoDB, Android, Firebase, Scikit-Learn, Pandas, Matplotlib, Jupyter Notebook

Awards

Schulich Leader Scholarship – Offered $80 000 by Western University for STEM leadership
René Descartes National Scholarship – Awarded $25 000 by University of Waterloo for math merit
Governor General's Academic Medal – Ranked 1st out of 250 students in academic standing
ECOO Programming Provincial Finals – Placed top 10 out of 400+ teams across Ontario
Galois Math Contest – Ranked top 0.5% in the world