

Karan Garg

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Software Engineer, Bloomberg, NY

Software Engineering 2020, University of Waterloo

Summary of Qualifications

- 4 years of work experience through software engineering internships and full-time role in industry
- Proficient in *Python, C++, Java, Node.js*; experienced with cloud computing platforms (*AWS*)
- Strong interest in Physics; selected among 40 students world-wide to participate in *QCSYS*, an international conference of young students on *Quantum Computing* at the IQC, University of Waterloo
- Particularly interested in distributed systems, looking for backend/infrastructure engineering roles

Work Experience

- Software Engineer, Bloomberg**, New York NY, USA Jul 2020 – Present
- Working on a *Celery*-based distributed workflow to acquire, process & deliver datasets to Data License clients
 - Developed a *Time Series Anomaly Detection* model for improved, early alarming on missing data
- Software Engineer, Uber**, Palo Alto CA, USA Sep 2019 – Dec 2019
- Developed a deep learning model for *Sentiment Analysis* of customer support tickets
 - Experimented with word-level *CNN, Multi-Head Self-Attention* based models for text classification
- Software Engineer - News & Social Analytics, Bloomberg**, New York NY, USA Jan 2019 – Apr 2019
- Used unsupervised learning methods (*DBSCAN, OPTICS*) to identify geographic regions with a high density of Tweets on market-moving events
- Software Engineer - Back End/Infrastructure, Inkling**, San Francisco CA, USA May 2018 - Aug 2018
- Built service to store, track 'read' status & manage distribution of content using *Lambda, RDS, DynamoDB, ES*
 - Re-wrote existing build pipeline to employ *Lambda, ECS Fargate*, vastly improving scalability & performance
- Software Developer, D2L (Desire2Learn)**, Kitchener ON, Canada Sep 2017 - Dec 2017
- Designed a *microservice* that employed *AWS Lambda, DynamoDB, SQS* to migrate data away from a monolithic system while incurring zero downtime and ensuring high throughput & eventual consistency
- Software Developer, National Instruments (NI) R&D**, Toronto ON, Canada Jan 2017 - Apr 2017
- Developed multiple user-facing features for Multisim Live, showcased at NIWeek2017, NI's annual user conference
- Software Developer in Test, Telus Health**, Cambridge ON, Canada May 2016 - Aug 2016

Projects

- Quirious, Online Platform for In-Class Q&A and Collaborative Notes** 2020
- Piloted in classes at Waterloo before the COVID-19 pandemic
- Beam, P2P Data Transfer using WebRTC (HackTheNorth 2017)** 2017
- Beam provides seamless connectivity between devices without the need to install any special software
- TARS, Free Web Browsing via SMS Messaging** 2016
- TARS lets you run a text-based browsing session on a remote computer, right from your phone's SMS app

Achievements and Awards

- University of Waterloo President's International Experience Award 2018, 2019
- University of Waterloo President's Scholarship of Distinction 2016
- University of Waterloo Dean's Honour List 2015, 2017, 2018, 2020

Education

Bachelor of Software Engineering (Honours) GPA: 87% Sep 2015 – Apr 2020
University of Waterloo, Waterloo, Ontario

Other Interests & Hobbies

Cricket Captain- CCVI Cricket Team, 2015	Tennis Intramurals, Waterloo Tennis Club, 2015 – 2020	Guitar Classical, Flamenco
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