

GREG CARLIN

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EMPLOYMENT

Meta *Software Engineer* Aug 2019 — Present

- Worked on data flow tracking service used to comply with privacy focused government regulations and avoid billions of dollars in fines. Cambridge, MA
- Redesigned platform for higher scalability and reliability. Contributions include new scalable MySQL schema, topology, and sharding strategy that supports 5x the existing workload.
- Designed and implemented easier data ingestion process chosen by 24 users to manage 3000+ ingestion tasks.
- Designed and implemented new subsystem to make 2TB of lineage per day available offline for privacy use cases. Compared to the old system I improved runtime from twenty-four to three hours, reliability from 89% to 98%, and reduced CPU 10x.
- Designed metrics to measure parity of new system against pre-existing system and led #1 team goal of driving these metrics up to 99.9%.

Technology used: Java, Python, SQL, MySQL, Bash, Presto, Spark, Hive, C++

Facebook *Software Engineer Intern* May 2018 — Aug 2018

- Backend infrastructure intern on the warehouse data insights team Cambridge, MA
- Developed a service to store and expose data warehouse dependency information in a graph database
- Optimized service until it was capable of ingesting over half a billion records in about an hour
- Service enabled flexible and efficient querying of dependency data via the Cypher query language by interested users such as data scientists

Technology used: Java, Python, SQL, Bash, Presto, Hive, Neo4j, Cypher

Brown University *Teaching Assistant* Sep 2016 — Dec 2018

- Teaching assistant for Accelerated Introduction to Computer Science (Fall 2016), Introduction to Software Engineering (Spring 2017), and Artificial Intelligence (Fall 2017, 2018) Providence, RI
- Head teaching assistant for AI (Fall 2018): lead 14 other students in updating and running the course
- Created and updated assignments for classes with a cumulative 385 students
- Guided and mentored students through these assignments on a weekly basis

Technology used: Pyret, Java, Python

Education First *Software Development Intern* May 2017 — Jul 2017

- Solved bugs and built features in the internal CRM used by over 500 salespeople Cambridge, MA
- Built an administration tool from scratch to manage the types of available tour customizations
- Independently built an auditor to draw insights into the customizations customers requested

Technology used: C#, ASP.NET, HTML, React.js, JavaScript, RabbitMq

State of Rhode Island *Technical Intern* Feb 2016 — May 2016

- Web development intern for Rhode Island's Office of Digital Excellence Providence, RI
- Sole developer of GetOutdoorsRI, a website that encourages Rhode Islanders to explore local parks
- Project commissioned by the Rhode Island governor
- Built on a Drupal site originally developed by the state of Missouri

Technology used: HTML, Drupal, PHP

EDUCATION

Brown University *Sc.B. Computer Science and Economics*, GPA: 3.93 / 4.0 Sep 2015 — May 2019

Selected courses: Design and Analysis of Algorithms, Computer Systems, Artificial Intelligence, Machine

Learning, Deep Learning, Algorithmic Game Theory, Computer Graphics, Programming Languages

PROJECTS

SignMeUp Feb 2017 — May 2019

- Took over development of a website used to keep track of help queues at TA hours
- Reduced downtime incidents from up to ten per semester to zero
- Used by the majority of Brown CS courses and over 200 students every semester

Technology used: HTML, JavaScript, Node.js, MongoDB, Meteor