

# GREG CARLIN

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## EDUCATION

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*Sc.B. Computer Science and Economics*, Brown University, GPA: 3.92 / 4.0 Sep 2015 — May 2019  
Courses: [Design and Analysis of Algorithms](#) [Computer Systems](#) [Artificial Intelligence](#) [Machine Learning](#) [Deep Learning](#)

## EMPLOYMENT

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*Software Development Intern*, Facebook May 2018 — Aug 2018  
[Java](#) [Python](#) [SQL](#) [Bash](#) [Presto](#) [Hive](#) [Neo4j](#) [Cypher](#)

Backend infrastructure intern on the warehouse data insights team

- 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 by interested users such as data scientists

*Teaching Assistant*, Brown University Sep 2016 — Present  
[Pyret](#) [Java](#) [Python](#)

Teaching assistant for Accelerated Introduction to Computer Science (Fall 2016), Introduction to Software Engineering (Spring 2017), and Artificial Intelligence (Fall 2017, 2018)

- Head teaching assistant for Artificial Intelligence: lead 15 other students in updating and running the course
- Created and updated assignments for classes with a cumulative 281 students
- Guided and mentored students through these assignments on a weekly basis

*Software Development Intern*, Education First May 2017 — Jul 2017  
[C#](#) [ASP.NET](#) [HTML](#) [React.js](#) [JavaScript](#) [RabbitMQ](#)

Software development intern on the tour purchase team

- Solved bugs and built features in the internal CRM used by over 500 salespeople
- 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

*Technical Intern*, State of Rhode Island Feb 2016 — May 2016  
[HTML](#) [Drupal](#) [PHP](#)

Web development intern for Rhode Island's Office of Digital Excellence

- 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

*Software Developer*, SchoolBee May 2015 — Sep 2015  
[HTML](#) [Angular.js](#) [Node.js](#) [MongoDB](#)

Third software developer for a startup focused on digitizing the K-12 experience

- Solved bugs and built features in SchoolBee's web directory software, which is used by over 3700 students and their families
- Developed an automated view system to improve the speed of reads from a Mongo database

## PROJECTS

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*Developer*, airDrive Jun 2016 — Aug 2016  
[HTML](#) [JavaScript](#) [Node.js](#) [MySQL](#) [Storj](#)

Independently built proof-of-concept cloud storage website that combined the usability of Dropbox with the security of file sharding and end-to-end encryption

- Files were sharded across a network of users' machines using Storj
- Participated in Breakthrough-Lab, a summer entrepreneurship program at Brown University

*Developer*, jGrader Sep 2014 — Apr 2017  
[HTML](#) [JavaScript](#) [Node.js](#) [MySQL](#) [Java](#)

Led a small team in building a website that enabled high school teachers to virtually collect, execute, and grade computer science assignments written in Java

- Created system capable of securely executing student code in browser with features such as File IO
- Was used by hundreds of teachers and thousands of students with virtually no marketing

## HONORS AND AWARDS

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*Eagle Scout*: Led volunteers in mapping several local cemeteries; only awarded to 5% of Boy Scouts Jun 2016