

## EDUCATION

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**Brown University** Providence, RI  
*Sc.B. Applied Math – Computer Science. GPA: 3.83*

Sep 2017 – May 2021

## SKILLS

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- Languages: Java, Python, Scala, JavaScript, HTML / CSS, Pyret, Racket, C++, SQL, Bash, Stata
- Technologies: Django, React, Node.js, Express, jQuery, Flask, Bootstrap, Qt, LaTeX, Git, MongoDB

## EXPERIENCE

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**Encashape** Wuxi, CN

May 2018 – Aug 2018

*Software Engineering Intern*

- Developed 3D printing software and interface for printer, using C++ and Qt
- Leveraged data science techniques to compensate for projector inconsistencies, increasing print quality by 8.3%
- Integrated better controls and optimized z-axis movement of printer, improving consistency by 15% on average
- Redesigned interface for printer, focusing on clarity and responsiveness through analysis of A/B testing
- Envisioned, designed, and sold a new company marketing initiative to systemize website redesign

**Artificial Intelligence Lab** Brown University

Jun 2018 – Aug 2018

*Undergraduate Researcher*

- Conducted extensive research to build an information retrieval model for precision oncology
- Used NLP to expand query by discovering similar terms through a 2 layer neural network, Word2vec model
- Generated thesauruses to guide query expansion by extracting from medical databases like MeSH and HUGO
- Co-authored a paper detailing efforts and submitted project to the TREC Precision Medicine 2018 Conference

**Data Mining Lab** Georgia State University

May 2018 – Jun 2018

*Research Intern*

- Engineered data transmissions pipeline of solar data from PostgreSQL database to a web interface by performing data acquisition, cleaning, parameter generation, tracking, and interpolation, using Java

## PROJECTS

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**Circle** Johns Creek, GA

Jul 2018 – Present

- Developed a social media web app using Django that provides multiple functionalities, including connecting with friends, posting pictures, commenting, liking posts, searching, etc.
- Designed a REST API with CRUD endpoints to efficiently read and write data to the PostgreSQL database
- Integrating machine learning techniques to recommend posts or friends depending on user's interests

**ClassConnect** Providence, RI

Jan 2018

- Built and pitched a Flask web app that allows students to connect with other students who have previously taken a specific class at Hack@Brown
- Used Facebook's Graph API to facilitate communication and profile integration into PostgreSQL database

**Guizilla** Providence, RI

Apr 2018

- Constructed an interactive GUI browser with HTML pages using Java, implementing both client-side and server-side through sockets, reflection, JavaFX events, and XML file parsing

**Search** Providence, RI

Mar 2018

- Built a REPL using Scala that responds to user query and returns the most relevant page results from an indexed corpus, using Google PageRank algorithm and tf-idf calculations to score a document's relevance

## INTERESTS

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- social good, finance, blogging, startups, teaching, web apps, violin, basketball, Roger Federer, recreational eating