

DAO LU
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EDUCATION

Princeton University

June 2017

Bachelor of Science in Engineering, Computer Science

Relevant Coursework: Data Structures and Algorithms, Introduction to Programming Systems, Probability and Stochastic Systems, Reasoning about Computation, Advanced Programming Techniques

GPA: 3.89

EXPERIENCE

Kyruus

Boston, Massachusetts (May 2015 - September 2015)

Software Engineering Intern

- Developed a RESTful API and UI for a medical database using Flask, SQLAlchemy, and Swagger.
- Sped up database queries in existing codebase by reducing SQLAlchemy ORM overhead.

Sizzle Technologies, LLC

Princeton, New Jersey (November 2014 - present)

Contractor

- Developed a website for an online Christian magazine, implementing backend using React and Prismic.io.

University of Maryland

College Park, Maryland (June 2014 – August 2014)

Undergraduate Researcher

- Researched lower bounds on Ramsey numbers, using AI techniques (Monte-Carlo Heuristic, Alpha-Beta Pruning) to simulate “Ramsey Games” in C.
- Found and proved a winning strategy for Ramsey Path Games and Ramsey Star Games, and proved some Ramsey Game numbers for small graphs.
- Developed a website, ramseygames.nichesite.org.
- Developed Java app for playing Ramsey Games using JavaFX (see website).
- Presented research at Emory STEM Symposium, 2015.

Jackson State University

Jackson, Mississippi (June 2010 – July 2011, summers only)

Intern, Biology Department

- Co-developed a Graphical User Interface for a Water-Correction Algorithm using Interactive Data Language.
- Developed a web site for mapping plant locations on the MS coast.
- Conducted research on characteristics of MS aquatic plants, and research was published in the Biology Department’s field guide.
- Co-authored an article, published in October 2012 in a peer-reviewed journal, Journal of the Mississippi Academy of Sciences, Vol. 57, No. 4. The article is “Aquatic Plants of the Mississippi Coast” and is found on pages 240 to 249.

**TECHNICAL
SKILLS**

Proficient in: Java, C, Python, HTML/CSS, Flask, SQL/SQLAlchemy

Familiar with: JavaScript, React, graphic design programs (Adobe Photoshop, GIMP, Affinity Designer)