# ROBED BEAUVILE

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## SUMMARY

Full-stack engineer with relevant course work in Linux/Unix programming, website and software design, object-oriented programming in C++, web page development, relational database design and SQL, and data engineering. A robust background in logical thinking, advanced mathematics, artificial intelligence, and machine learning. Committed to mastering new systems and technologies.

## SKILLS

**Proficient in:** PHP, Python, JavaScript

**Working Knowledge of:** T-SQL, CSS/HTML, UNIX scripting, C++, C, Git, AJAX, JSON, Tableau

**Web Servers:** Apache, Nginx, Gunicorn **Platforms:** Linux/UNIX, Ubuntu, macOS, Windows

**Development Software and Services:** Atom, Visual Studio, IDLE, AWS, EC2, MAMP, XAMPP, HEROKU CLI

**Frameworks:** React.js, Node.js, Django, Flask, Bootstrap, D3.js, jQuery

## PROJECTS AND EXTRACURRICULARS

**S-FITNESS AUTOMATED PERSONAL TRAINER,** ( Summer 2020 )  Website  Github
**Tools:**  PHP, CSS, React.js, SQL, Bootstrap

- Implemented the Fisher-Yates algorithm which reveals 1-7 food nutrition tables.
- Developed an algorithm that decreases the user's weight by 4% - 12% in 4 weeks.
- Wrote 3000+ lines of source code using PHP MVC best practices.

**A.I. CALCULUS TUTOR BOT,** ( Spring 2020 )  Website  Github
**Tools:** Python, Javascript, HTML, CSS, JSON, AJAX, Django, Numpy, Tensorflow, SymPy NLTK, D3.js

- Launched a compute engine with an illustrative guide feature that solves calculus problems.
- Engineered and Integrated a retrieval based chatbot API with 20+ response patterns.
- Directed 10 surveys, 1 focus group, and 15 users (student) interviews, received a 90% positive reviews.

**2-PART SERIES "LEARN SQL THROUGH SET THEORY!",** ( Summer 2020 )  Talk 1  Talk 2
**Tools:** T-SQL, PHP, MAMP, HTML, CSS, Microsoft PowerPoint

- Devised 2 seminars to teach T-SQL and relational database principles, a team of 5.
- Designed a database to provide an example of an RDBMS, attended by 23 undergraduates.

**THE WORLD'S HARDEST GAME,** ( Spring 2020 ) Github
**Tools:** C, C++

- Constructed a 26 level guessing game. Level 1 is impossible and level 26 is a guaranteed victory.

## EDUCATION

**UNIVERSITY OF PITTSBURGH,** Pittsburgh, PA, **MA in Applied Mathematics**
Cumulative GPA 3.86/4.00 **Completed:** December 2019

**FLORIDA STATE UNIVERSITY,** Tallahassee, FL, **BS in Mathematics** with a **Minor in Computer Science**
Cumulative GPA 3.90/4.00 **Completed:** June 2017

## EXPERIENCE

**Graduate Teaching Fellow/Lecturer** at **University of Pittsburgh,** Pittsburgh, PA ( August 2018 - Present )
- Composed and presented course material to 50+ students in 6 weeks, received a 93% passing rate.
- Collaborated with faculty to maintain a portfolio of 250+ students each semester, a group of 6-10.

**Math Logic and Computer Science Researcher** at **Florida State University,** Tallahassee, Fl ( August 2016 - May 2017)
- Spearheaded a thesis project to publish an original result in 100+ lines of code, a team of 2.
- Proved that two-node data types have a partial ordering in a formal proof management system.