David Cabatingan

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SKILLS

- **Skills:** Adaptability, leadership, conflict remediation, mentoring, and effective communication.
- **Programming Languages:** Java, Python, C, MATLAB, R
- **Technical Skills:** object-oriented design, algorithms, data structures, data analysis, systems programming

WORK EXPERIENCE

The MathWorks, Inc. **May 2019 – August 2019**
Engineering Development Group Intern *Natick, MA*

- Improved MATLAB's Predictive Maintenance Toolbox, applying machine learning and statistics to machinery and equipment health monitoring.
- Worked with the Design Optimization and Identification team to assist in the implementation of a new backend variable information system for an upcoming release product.
- Participated in agile software development with a team of full-time engineers.

Brown U. Department of Computer Science **May 2018 – Present**
Teaching Assistant *Providence, RI*

- Worked as a teaching assistant for:
  - *CSCI 0150: Intro to Object-Oriented Programming (Fall 2018)*
  - *CSCI 0220: Discrete Structures and Probability (Spring 2019)*
  - *CSCI 0100: Data Fluency for All (Fall 2019)*
- Held weekly office hours to help students solve problems and review material.
- Worked to develop problem sets and assignments. Graded said problem sets and assignments.

Brown U. Department of Computer Science **May 2019 – Present**
Research Assistant *Providence, RI*

- Investigating the use of machine learning techniques to inform diagnosis and medical care.

EDUCATION

Brown University **In progress (May 2021)**
ScB in Math - Computer Science *Providence, RI*

- Relevant computer science coursework:
  - Computer science courses: Object-Oriented Programming, Data Structures and Algorithms, Computer Systems, Data Science, Logic for Systems
- Relevant mathematics coursework:
  - Multivariate Calculus, Linear Algebra, Probability and Statistics, Abstract Algebra

PROJECTS

- **Shell** (C): Implemented a fully functioning shell program for Linux systems.
- **Othello** (Java): Designed and implemented the board game Othello, complete with AI opponent using minimax search.
- **Get Ready for Baby** (Python, JS): Investigated trends and sentiments in baby name data. Results available on website.