

David Ham

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EDUCATION

UNIVERSITY OF VIRGINIA

School of Engineering and Applied Science

Major: Computer Science, B.S. / **Minor:** Engineering Business

GPA: 3.92/4.0 – Highest Distinction

Charlottesville, VA

Graduated May 2023

CHRISTIAN BROTHERS ACADEMY

Class Salutatorian; SAT: 1520/1600 (730 Verbal, 790 Math)

Lincroft, NJ

Graduated May 2019

WORK EXPERIENCE

ERNST & YOUNG

Technology Consulting Intern (Financial Services)

New York, NY

Summer 2022

- Developed software of the EY Quant Platform (a proprietary trade risk platform) employing advanced software-design patterns of distributed grid computing in AWS, optimized data structures, and job parallelization for efficiency
- Programmed job scheduler and grid distribution parser; pitched & implemented code improvements for platform
- Presented results of code implementations weekly under scrutiny of senior leadership and broader engagement team
- Conducted calls and attended meetings every week with various teams and leaders across the company to enhance understanding about the intersection of technology and the financial services industry

UNIVERSITY OF VIRGINIA

Engineering School Tutor

Charlottesville, VA

Fall 2021- Spring 2022

- Tutored engineering students in the university's upper-level undergraduate computer science, math, and physics courses including Algorithms, Probability, Physics E&M, and Database Systems
- Leveraged students' diverse learning styles and backgrounds to enhance studying approach, understanding, and enthusiasm towards subject material

GATEWAY NATIONAL RECREATION AREA – US NATIONAL PARK SERVICE

Senior Surf Lifeguard

Sandy Hook, NJ

Summers 2017-2021

- Performed 20+ ocean rescues and enforced safety protocols with ~ 60 guard team at Gateway National Recreation Area, a top tourist destination of the NJ shore attracting up to 30,000 visitors a day with upwards of 700 rescues a season

PROJECTS

Predicting Broadband Internet Speeds – ML4VA Machine Learning Project

Fall 2022

- Executed project implementing various machine learning models to predict broadband internet speeds across all Virginia counties; performed feature engineering and data cleaning to compile dataset; reported an R2 score of 86.7% accuracy

Rent-a-Spot – Startup Pitch

Fall 2021

- Conducted market research and interviews, market analysis, and pitched startup idea to class for a mobile app allowing users to rent out private parking spots

Gamercise – Workout Log Web App

Spring 2021

- Developed and deployed web app enabling users to log workouts, track long-term fitness progress, and compete with other users; performed customer discovery as requirements manager; wrote entire code for visual scheduler

The Psychology of Routine, Superstition, and Habit – Scholars Colloquium Research Project

Spring 2019

- Led a year long, independent research project that explored the impacts of routines/rituals on cross country runners' race performance; one of five students selected to present at the Christian Brothers Academy Scholars Colloquium

TECHNICAL SKILLS

- Machine learning (models, theory, data cleaning), cryptocurrency/blockchain development (Solidity), web development (JavaScript, PHP, HTML/CSS), backend software development (Java, C/C++, Python), database management (SQL)

INTERESTS & EXTRACURRICULARS

- Ski Racing (UVA Ski Team), Running & Physical Fitness (Varsity XC for nationally ranked high school), Camping/Hiking (Eagle Scout), community building events (e.g. built community gym with focus on developing self-accountability via leaderboards and fitness challenges during Covid)