

# David Lieman

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[www.linkedin.com/in/david-lieman](http://www.linkedin.com/in/david-lieman) | <https://andgoliath.me/> | <https://github.com/david3748>

## EDUCATION

*Bachelor of Science in Computer Science and Math, University of Maryland*, College Park, MD Expected Dec 2026

- 3.49 GPA
- Relevant Coursework: Linear Algebra, Multivariable Calculus, Probability Theory, Discrete Mathematics, Real Analysis, Number Theory, Computer Systems, Data Science, Programming Languages, Algorithms, Numerical Analysis, Advanced Data Structures
- Activities: Club Fencing, Ballroom at Maryland, Terrapin Trail Club, Math Club

*Exchange Student, Technical University of Denmark*, Lyngby, Denmark Fall 2025

- Courses: Deep Learning, Artificial Intelligence and Human Cognition, Cryptography, Algorithms II

## EXPERIENCE

*Incoming Investment Associate Intern, Bridgewater Associates* Summer 2026

*Summer Analyst, Arenova Capital*, Dallas, Texas June 2025 - Aug. 2025

- Created a data-science based game for hiring to test web scraping and analysis
- Implemented internal system for market analysis using a prize-collecting Steiner tree.
- Produced graphics used in investor decks
- Implemented a scraping system using Selenium

*Software Developer Intern, RKF Engineering Solutions*, Bethesda, Maryland May 2024 - Aug. 2024

- Spearheaded an independent project to create signal loss mapping contours, significantly improving spatial analysis of RF propagation
- Leveraged NumPy for advanced data analysis and visualization, enhancing the interpretation of complex signal attenuation patterns
- Developed a custom C++ application to generate precise radio loss grids, optimizing RF propagation modeling

*Atlas Fellow, Atlas Fellowship*, Berkeley, California June 2023

- Selected as one of 100 Atlas Fellows from over 13,000 applicants to receive a \$10,000 scholarship and participate in a selective summer program
- Studied AI risk, decision theory, Bayes Theorem, prediction markets, and other subjects
- Developed startup ideas such as an automated phone call based vaccine reminder system in Burkina Faso

## Projects

*&Goliath* | Personal Website | GitHub: <https://github.com/David3748/AndGoliath>

- Punny personal website
- Technologies: Next.js, React, Tailwind CSS, Framer Motion, TypeScript.

*Are We Judgemental* | Data Analysis | Project Link: <https://david3748.github.io/Are-We-Judgemental-Website/>

- Conducted an analysis comparing UMD CS students and Redditors on AITA questions.
- Technologies: Python, pandas, SciPy, NumPy, Jupyter Notebooks, praw, Reddit API.

*Transit Topography* | Web Application | <https://david3748.github.io/Transit-Topography/>

- Created an isochrone map of transit times to visualize temporal distance from anywhere in a city
- Technologies: JavaScript, Leaflet.js, Overpass API, LocationIQ API, HTML, Tailwind CSS

## SKILLS

Programming Languages: C++, Java, Python, MATLAB, SQL, x86-64 assembly, C, Pandas, Git, Prisma, Javascript

Skills: Software Development, Linux, Concurrency, Problem-solving, Debugging, Communication

## HONORS/ACCOMPLISHMENTS

- Winner of OPTIC DC Forecasting Tournament
- International Economics Olympiad Gold Medalist (2021)
- Washington Area Model United Nations Best Delegate (2023)