HENRY BALICK GOODMAN

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EDUCATION

University of Maryland, College Park   *GPA: 4.0/4.0*
Bachelor of Science in Computer Science and Mathematics (Double Major), Honors Citation   *August 2021 – May 2025*
Relevant Coursework
OOP, Data Structures, Computer Systems, Programming Languages, Algorithms, Artificial Intelligence, Big Data, Data Science, Discrete Math, Probability Theory, Calculus III, Linear Algebra, Game Theory

EXPERIENCE

Software Engineering Intern   May 2023 – Present
Vanguard   *Malvern, PA*

- Architected and implemented full stack Angular component leveraging AWS, TypeScript, and GraphQL that parses, summarizes, and updates large-scale database objects resulting in greater efficiency
- Developed sentiment analysis algorithm comparing 6 strategies to show benefit of staying course over volatility
- Migrated 5 AWS Lambdas with Dexter leading to less downtime and improved security for essential cloud services
- Created Python data connector that shares real-time data between 2 applications for present employee capacity

Teaching Assistant: Object Oriented Programming   August 2022 – Present
UMD Department of Computer Science   *College Park, MD*

- Advanced over 250 students' coding skills by providing feedback on their project implementation, with emphasis on improving logic, style, and unit tests
- Graded hundreds of students exams, projects, and quizzes with focus on accuracy and efficiency

Full Stack Developer Intern   May 2022 – August 2022
Mission Agency   *Baltimore, MD*

- Developed CMS templates for clients, leveraging open-source platforms such as Wordpress and Drupal
- Built and repaired front-end, adaptive websites, such as the Maryland Zoo, using HTML5, CSS flexbox and grid, JQuery and JavaScript with tens of thousands of monthly visitors
- Created specs documentation outlining programming approach and client customization through the CMS
- Collaborated with other interns to troubleshoot issues on 6 websites regardless of platform familiarity

Guided Study Session Leader Calculus II   January 2022 – May 2022
UMD Teaching & Learning Transformation Center   *College Park, MD*

- Planned and organized 20+ study sessions to review material in Calc II with a focus on collaboration, theory, and application
- Mentored over 250 students in analytical techniques for applications of integration, invertible functions, series and sequences, and other Calc 2 topics

Math Mentor / TA   May 2020 – January 2022
MrDMath.com   *Remote*

- Built Excel formulas to automate work and save hundreds of dollars in labor costs
- Oversaw and trained others to use a database of course assignments and tests for over 80 classes

TECHNICAL SKILLS

Languages: Java, Python, OCaml, JavaScript, R, C, CSS, HTML, MATLAB, Ruby, Rust, PHP
Frameworks & Technologies: Angular, JUnit, WordPress, Advanced Custom Fields, Spotipy, JQuery, DynamoDB, GraphQL
Developer Tools: Git, Docker, Figma, Visual Studio Code, PyCharm, Eclipse, RStudio, FileZilla (FTP)

PROJECTS

Speechify | *Flutter, Flask, Tesseract, OpenCV*   April 2023 - April 2023
- Worked with 3 teammates to develop mobile Optical Character Recognition that extracts text from image
- Placed first in People's choice out of 150 projects

Tango | *Python, CockroachDB, HTML, CSS, BootStrap*   April 2022 - April 2022
- Collaborated with 3 teammates to research and create AI in Python that ranks users compatibility based on their music taste integrating Spotify's API. Integrated relational databases to store and fetch users' information