

# HENRY BALICK GOODMAN

443-743-9940 | [hbalickgoodman@gmail.com](mailto:hbalickgoodman@gmail.com) | [linkedin.com/in/henry-balick-goodman/](https://www.linkedin.com/in/henry-balick-goodman/)

## 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

Data Structures, Algorithms, OOP, Programming Languages, Computer Systems, Artificial Intelligence, Machine Learning, Data Science, Discrete Math, Probability Theory, Calculus III, Linear Algebra, Game Theory, Real Analysis

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, C, R, SQL, CSS, HTML, OCaml, Ruby, PHP

**Frameworks & Technologies:** Angular, TypeScript, JQuery, DynamoDB, GraphQL, S3, WordPress

**Developer Tools / Methodologies :** Git, Agile, Jira, Figma, FileZilla (FTP)

## 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 18% greater efficiency for senior auditors
- Developed sentiment analysis algorithm comparing 6 strategies to show benefit of staying course over volatility
- Migrated 5 AWS Lambdas leading to reduction in costs 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: Data Structures & OOP

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

## 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