

# RITESH VERMA

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## Education

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### University of Maryland, College Park

*B.S. in Computer Science, Minor in Business Analytics*

**Expected Graduation: May 2023**

*Banneker Key Scholar (Full-ride), GPA: 3.85/4.00*

Relevant Coursework: Data Structures, Algorithms, OOP, Computer Systems, Computer and Network Security, Computer Vision, Intro to Machine Learning, Intro to Data Science, Applied Statistics, Linear Algebra

## Technical Skills

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**Languages:** Python, Java, C/C++, C#, .Net, HTML/CSS, JavaScript (React), Node.js, R, MATLAB, GO, OCaml, SQL  
**Technologies/Frameworks:** Linux, Unix, GitHub, JUnit, Postman, Docker, Puppeteer, Chromium, Pandas, AWS, Fiddler

## Professional Experience

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### Capital One

**June 2022 – Aug 2022**

*Software Engineer Intern*

*New York City, NY*

- Implemented an API backend for a customer driven Legal Entity management system using Postgres, Go, HTTP, and JSON
- Developed FIFO SNS-queue driven Lambda function to update a database search solution index using Go and AWS
- Worked with the Agile scrum framework using Git, Jira, and Jenkins (CI/CD) to accelerate development cycles

### UMD Department of Computer Science

**Oct 2021 – Jan 2022**

*Teaching Assistant*

*College Park, MD*

- Leading office hours for 590 students in the Introduction to Computer Systems course
- Delivering instruction on topics involving Linux (commands, Emacs), C (fundamentals, structures, memory diagrams, concurrency, process control), and Assembly (register management, MIPS, program flow)

### Software Contracting

**May 2021 – June 2022**

*Full Stack Software Engineer*

*Baltimore, Maryland*

- Designed 11 full stack web automation apps using Node.js, HTML, and other JavaScript libraries that used Chromium browsers and asynchronous request handling to autonomously purchase limited stock items
- Over \$120,000 worth of hyper in demand products purchased across 20 sites including (but not limited to) Apple, Target, Scotty Cameron, and Walmart
- Negotiated and successfully completed over 25 client contracts

### Avid Technology Professionals

**Jun 2021 – Aug 2021**

*Software Engineer Intern*

*Columbia, MD*

- Led development of Java based employee screening and filtration program to facilitate employee recruitment
- Created a versatile Java based indexing system that categorized 150+ company documents based on "tags" to boost file searching speed by over 50%

### Mahlet Consulting

**June 2019 – August 2019**

*Software Engineer Intern*

*Columbia, MD*

- Created a QT C++ application that manipulated pseudo-random binary sequences to facilitate and interpret optical transport network performance.
- Wrote 5 medium-sized algorithms to assist other teams' FPGA functionality programs for optical transport networks.
- Implemented Gaussian and Poisson noise generators for binary streams to back-test binary stream recognition.

## Projects

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### NBA Hall of Fame Predictor | Python, Machine Learning, NumPy, BS4, Requests, Pandas

**May 2021**

- Developed Linear Regression model with variable thresholds to predict the likelihood of a given NBA player being inducted in the HOF based on multiple predictors with 89% accuracy
- Back tested linear model for underfitting and overfitting across different thresholds

### Who's Face | Python, NumPy, Machine Learning, Linear Algebra

**Jan 2021**

- Developed and trained a facial recognition algorithm on a set of over 3700 images using principle component analysis and support vector machine decomposition with Python and NumPy
- Obtained a 87% face recognition accuracy through testing and optimizing model parameters
- Deciphered and modeled program using Matthew Turk and Alex Pentland's eigenfaces research paper