

PARI GILL

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EDUCATION

University of Maryland

College Park, MD

B.S. Computer Science

August 2023 - May 2027

Relevant Coursework: Computer Systems, Object-Oriented Programming I & II, Discrete Structures, Linear Algebra, Calculus I & II

Campus Involvement: Alpha Omega Epsilon - Professional Sorority of Female Engineers, Hack4Impact, Consult Your Community

PROFESSIONAL EXPERIENCE

Software Designer | Hack4Impact

August 2024 - Present

- Led the design and development of front-end architecture, layout, and user experience. Employed Figma to craft wireframes, mockups, and high-fidelity user interface designs.
- Acted as a liaison between the software development team, NPO clients, and project managers to ensure alignment of design objectives with backend development requirements and project expectations.

Business Analyst | Consult Your Community

January 2024 - Present

- Performed market research, competitive analysis, and developed a business plan for startup company, Alperian.
- Led team initiative in Search Engine Optimization (SEO), digital marketing, and advertisement, to enhance online visibility and increase organic traffic growth.

Massachusetts Institute of Technology | Beaver Works Summer Institute - Cyber Security in Software Intensive Systems

Late Undergraduate to Early Graduate Level (700-800)

July 2022 - August 2022

- Implemented penetration testing via Metasploit, inspected data packets via Wireshark, performed disk analysis via Autopsy, and in a real-world Capstone Project, conducted OSINT research on 200+ malicious IP addresses using VirusTotal, AnyRun, and DNSDumpster.
- Performed ethical hacking via HackThisSite, Overthewire, and TryHackMe.
- Attended seminars and lectures by MIT professors, scientists and professionals in fields of interest.

Entrepreneur & Business Owner | ETSY

December 2020 - May 2022

- Received 275+ orders (international and domestic) and crafted 800+ painted CDs.
- Oversaw end-to-end operations, developed business plans, supervised customer support, managed finances, and led marketing initiatives leveraging data-driven advertising strategies. Designed and managed the company website.

Lifeguard | Fanwood Scotch Plains YMCA

July 2021 - January 2024

- Certifications: American Red Cross Lifeguarding, First Aid and CPR/AED, Emergency Oxygen Administration

PROJECTS & CERTIFICATIONS

Image-Based Scam Detection (Scam Buddy)

July 2024 - August 2024

- Engineered a multimodal detection framework that integrates text and image features, achieving a 90% accuracy rate in classifying scam images.
- Designed a high-efficiency Optical Character Recognition (OCR) pipeline using Tesseract to extract and preprocess textual data from images, for training a Naive Bayes text classifier with Scikit-learn for advanced Natural Language Processing (NLP).
- Implemented a Convolutional Neural Network (CNN) to extract deep image features, strategically weighting and them with text vectors to optimize spam detection and classification accuracy

Machine Learning Specialization Certification | DeepLearning.AI, Stanford University

May 2024 - July 2024

- Mastered supervised learning (regression, classification, neural networks), unsupervised learning (clustering, anomaly detection, dimensionality reduction), and recommender systems (collaborative and content-based filtering, reinforcement learning).
- Gained practical experience in building and optimizing ML models using advanced algorithms and data-driven techniques.

AWS Cloud Practitioner Essentials Certification

December 2023 - January 2024

- Fundamentals in AWS cloud computing models, global infrastructure, core services, networking, security, pricing, and compliance.

UMD Class Availability Tracker

August 2023 - Present

- Developing a Chrome extension that automates the tracking of course availability on UMD's Schedule of Classes, routinely refreshing and sending real-time email notifications when seats become available in selected sections.
- Utilize JavaScript for web scraping with Chrome APIs to seamlessly monitor and alert users.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML, CSS, MATLAB

Libraries: TensorFlow, Tesseract, Scikit-learn, NumPy, Matplotlib, OpenCV, Keras, NLTK

Awards: JA High School Hero Scholar Award (Scholarship), Rutgers ScreenNJ Mobile Health Van Art Competition Winner, 4th Place Winner in NJFBLA Business Ethics State Level Competition