

Jalal Ahmad

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EDUCATION

University of Maryland - College Park

Expected: May 2026

Bachelor of Science, Computer Science. GPA: 3.5

Relevant Coursework: Object Oriented Programming, Design/Analysis of Algorithms, Advanced Data Structures, Computer Systems, Programming Languages Implementation, Full Stack Development, Data Science & ML

PROJECTS

Full-Stack Applications:

AppTrak (Current)

- Application that allows users to securely register and track their job/school/extracurricular applications with a minimalistic and modern UI.
 - Skills: Go, SQL, Docker

DevHorizon Nova-GPT (December 2024)

- A RAG-powered chatbot built on Google's Gemini. Designed for CS students and tech enthusiasts, it provides insights into tech stacks, companies, and required technical skills, with up-to-date web scraped information, empowering users to achieve their career goals.
 - Skills: Langchain, OpenAI, Gemini, Datastax AstraDB, Vector Embeddings, Next.js, TailwindCSS.

NaviNews (November 2024)

- Application that allows users to explore current world news, search for topics of interest, and save their favorite searches and articles for easy access later.
 - Skills: Flask, MongoDB, API, Docker, TailwindCSS.

Recipe Application (August 2024)

- Application allowing users to securely register, log in, and perform CRUD operations on personal and community recipe collections.
 - Skills: Mongoose, Next.js (React), Node.js (Express), RestAPI, JWT Authentication, TailwindCSS.

BoredomBuddy (May 2024)

- An activity generator application that integrates with the 'BoredAPI'. Users can log in, generate activities, and track past activity history in a NoSQL database.
 - Skills: Node.js (Express), API, MongoDB Atlas, HTML/CSS, Templating (EJS)

University Projects:

MicroCaml Programming Language (2024)

- Developed a dynamically-typed version of OCaml. Contributed to the creation of a lexer, parser, interpreter, optimizer, and type checker for this custom language.
 - Skills: OCaml, Functional Programming, Program Language Implementation.

Blueberry Crisp CPU (2023)

- Designed functions to manipulate a fictional processor that accesses memory, enhancing understanding of low-level computing.
 - Skills: ANSI C. Bit Manipulation and Masking. Pointers. Hardware and Assembly concepts.

Orders Processor (2022)

- A multithreaded program to process purchase orders from multiple text files, generating order summaries using concurrent processing techniques.
 - Skills: Java. Multithreading and Concurrency. JUnit. OOP Design. Data Structures.

CERTIFICATIONS & TRAINING

Accenture Software Engineering Job Simulation (September 2024)

- Acquired practical knowledge of industry software practices through implementing a SpringBoot search controller, automating builds with Jenkins, and gaining familiarity with Agile development methodologies.

CodePath Intermediate Technical Interview Prep (August 2024)

- Completed a 10-week program solving 80+ LeetCode problems, honing data structures, algorithms, and technical interview skills.

CodePath Intermediate Cybersecurity (May 2024)

- Gained hands-on experience with cybersecurity tools/techniques for threat detection and system protection.

SKILLS

Programming: Java, C/C++, Python, Java/TypeScript, OCaml, Rust, Go.

Technologies: Next.js (React), Node.js, MongoDB, MySQL, Flask, Git, Linux, Wireshark, Splunk.

Developing Interests: Terraform, Docker & Kubernetes, Azure DevOps, ML/AI with CUDA, Java Spring, Networking, Computer Security

Soft Skills: Engagement and Enthusiasm. Organization and Coordination. Quick Learner and Proactive.