Jack Hoggard

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EDUCATION

The University of Texas at Dallas   Richardson, TX
Bachelor of Science in Computer Science   *Aug. 2021 – May 2025*
- **Relevant Coursework**: Computer Graphics, Machine Learning, Operating Systems, Advanced Data Structures & Algorithms, Software Engineering, Computer Networks, C/C++ Programming in a UNIX Environment, Linear Algebra

EXPERIENCE

Software Engineer Intern   Jan. 2025 – Present
TrailBlazer LLC   *Dallas, TX*
- Spearheaded the development of an AI-powered recommendation engine that improved candidate matching accuracy by 30% and reduced manual HR screening time by 25%.
- Engineered and deployed a scalable solution using AWS serverless architecture and Next.js, reducing infrastructure overhead and boosting application performance.
- Implemented a real-time feedback loop using AWS Lambda and DynamoDB, reducing false recommendations by 35% and enhancing system responsiveness.

Game Development Intern   June 2022 – June 2023
Divine Gaming Inc   *Austin, TX*
- Designed and implemented new character modules and adaptive NPC behavior systems in Java, improving processing efficiency by 20% and frame rate stability by 15%.
- Developed and optimized dynamic pathfinding algorithms that decreased AI latency by 25%.
- Enhanced the existing codebase by reducing redundancy by 30%, streamlining future updates and improving overall maintainability.

PROJECTS

Insperity Interactive Case Study Tool | *C#, Angular, .NET, Azure, Docker*   Jan. 2025 – Present
- Engineered a learning tool using Angular for the frontend and .NET for the backend, designed to dynamically adjust training content based on user responses.
- Developed an adaptive algorithm that tailors the next question based on previous answers, resulting in a 25% improvement in training efficiency.
- Leveraged Azure cloud services and OAuth for user authentication, ensuring a secure, scalable, and robust user experience that meets enterprise standards.

Dreamboard | *Python, Django, React, PostgreSQL, Docker*   Aug. 2021 – Dec. 2021
- Developed a dynamic website with a React frontend and a Django REST Framework backend, enabling users to design and visualize room layouts.
- Enhanced the platform's catalog by integrating multiple APIs to fetch over 10,000 furniture and decor options.
- Implemented advanced filtering and recommendation features that streamlined the selection process and personalized user experiences.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, SQL (Postgres, NoSQL), JavaScript, TypeScript, HTML/CSS, Ruby
Frameworks: React, Angular, Next.js, Node.js, Django, .NET, JUnit, Material-UI, FastAPI
Cloud & DevOps: AWS (Lambda, DynamoDB, API Gateway), Azure, Serverless Architecture
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Additional: Agile Methodologies, AI & Machine Learning concepts, Algorithm Design, Game Development