

Advait Pandey

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EDUCATION

North Carolina State University

Bachelor of Science in Computer Engineering GPA: 3.8

Raleigh, NC

May 2027

TECHNICAL SKILLS

Coursework: Data Structures and Algorithms, Operating Systems, Machine Learning, Embedded and Linear Systems, Database Systems

Languages: Java, Python, C/C++, Go, C#, Javascript, SQL, HTML/CSS

Tools: Docker, MSF SQL-Server DataDog, Git, AWS, Azure, Postman, Podman, Jira, Data Dog

EXPERIENCE

Spectrum

May. 2025 - Aug. 2025

Software Engineer Intern

Charlotte, NC

- Developed a support tool to access lower level testing environments in using React.js, Springboot(Java), and SQL
- Built RESTful APIs in **Java** handling group membership logic, supporting **1,000+ internal users**
- Deployed microservices on **Azure** with **Docker**, leveraging **Datadog** to monitor scalability, reliability, and fault tolerance in **distributed systems**

InternOptima

Sept. 2024 - Dec. 2024

Software Engineer Intern

Remote

- Built secure REST APIs for job-board playlists and user data retrieval, deployed on **AWS EC2 and Lambda**
- Developed responsive **React** frontend with **Java** and Swagger backend using **MySQL** for queries

North Carolina State University

Aug. 2024 - Nov. 2024

Undergraduate Research Assistant

Raleigh, NC

- Developed hardware-accelerated algorithms on FPGAs using **Verilog**, boosting processing speed by **15%**
- Programmed **C++** interfaces for FPGA hardware for multithreaded applications, while reducing latency by **25%**

Outlier

June 2024 - Aug. 2024

AI Intern

Remote

- Deployed 4 AI use-cases using **AWS Bedrock** and **Tensorflow(Python)** for business analytics
- Improved UI usability by 10% through collaborative capstone development using client collaboration

LEADERSHIP & INVOLVEMENT

NCSU IEEE

Web Master

Raleigh, NC

- Maintain and update the IEEE chapter website for **200+** members expanding recruitment and outreach

Pack Hacks

Secretary

Raleigh, NC

- Coordinate meetings to support event planning and internal communication for a **100+** member hackathon organization

PROJECTS

Obelisk DB | C, CMake, Make

- Built a relational **database engine** from scratch with custom **B-tree indexing**, **page-based storage**, and an **SQL-like parser**.
- Implemented **ACID-compliant transactions** using **write-ahead logging (WAL)** and **memory-mapped files**, ensuring durability and crash recovery.

Scribe AI | Next.js, Firebase, Auth0, Hugging Face LLM, Node.js

- Designed an a study tool to help college students learn and improve retention through **active recall**.
- Achieved **\$3,000+ revenue** and scaled to **500+ monthly active users**, validating product-market fit.

Moodle Tracer | TypeScript, Red Hat Podman, NPM, Puppeteer

- Developed an open-source **Moodle LMS web scraper** published on **NPM** to help create custom workflows.
- Supports features like **real-time notifications**, **text alerts**, and customizable **dashboards**.