

Tommy Aliff

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Summary

Dedicated and results-driven Computer Science student seeking entry-level employment in data or software engineering, Proficient in Python, Java, SQL, and cloud technologies, with a passion for leveraging LLMs to solve complex problems and empowering students and teams to achieve their full potential.

Education

- **Radford University**, Radford, VA
 - Bachelor of Science, Computer Science & Technology, Concentration in Data and Software Engineering
 - Expected Graduation: May 2025
 - GPA: 3.80/4.00
- **Virginia Western Community College**, Roanoke, VA
 - Associate of Science, Computer Science, Graduated Magna Cum Laude (August 2024)
 - Phi Theta Kappa Honor Society Member

Relevant Coursework

- Data Engineering, Cloud Database Architecture, Algorithms and Optimization, IT Project Management
- Object-Oriented Programming, Operating Systems, Software Engineering, Software Testing

Selected Projects

- **Threads: A Social Interaction Platform** (AWS DynamoDB, API Gateway, Lambda) [SEE THE DEMO](#)
 - Developed a threaded discussion forum with dynamic user features.
 - Architected a scalable data model using Amazon DynamoDB.
 - Demonstrated proficiency in cloud technologies by integrating AWS services.
- **Airline Reservation System** (Java, PL/SQL) [SEE THE CODE](#)
 - Implemented MVC and Singleton design patterns for efficient data management and UI interaction.
 - Developed a command line interface in Java.
 - Integrated the application with an Oracle database using JDBC.

Work Experience

- **Online Computer Science Tutor, Virginia Western Community College** (May 2023 - Present)
 - Delivered personalized online tutoring, empowering students to master core CS concepts.
 - Elevated students' problem-solving & debugging acumen through hands-on code troubleshooting.
 - Used illustrative examples to demystify programming techniques, fostering deeper comprehension.
 - Cultivated self-directed learning by guiding students to effective online resources.

Technical Skills

- **Databases** - SQL / NoSQL / Graph: Amazon RDS, Postgres, Oracle, DynamoDB, MongoDB, Neo4j, Neptune.
- **Frameworks, Languages, and Tools** - C, Java, Python, Alation, Apache Airflow, Docker, Git, IntelliJ IDEs, Maven, Pandas, Rest APIs, Swagger.
- **Services** – AWS / Amazon: Amplify, API Gateway, Athena, Cognito, Comprehend, ECR / ECS, EC2, Fargate, Glue, IAM, Lambda, S3.
- **Additional:** Agile Project Management; Adobe Photoshop, Technical Writing.
- **Proficient in utilizing Large Language Models (LLMs) for problem-solving, code generation, and data analysis.**

Certifications

- **AWS Certified Cloud Practitioner, Java Certified Foundations Associate; Information Technology Specialist, Java; Information Technology Specialist, Python**

Additional Experience

- **Concrete Finisher**, Concrete Specialties, Inc., Roanoke, VA (March 2021 - May 2022)
- **Carpenter**, Blue Ridge Restoration and Construction, Roanoke, VA (February 2019 – October 2020)