

# Oscar Valles

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## EDUCATION

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**MASTER - COMPUTER ENGINEERING**  
UNIVERSITY OF TEXAS AT DALLAS •

*Richardson, Texas*  
*Expected Graduation, May 2026*

**BACHELOR - INFORMATION TECHNOLOGY**  
UNIVERSITY OF PHOENIX • PHOENIX, AZ

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## EXPERIENCE

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**Cloud Application Developer**  
*Cloud Academy*

*October 2024 - Present*

- **Developed and deployed** a bucket list tracking application using React, enabling users to seamlessly manage personal goals and lists.
- **Frontend Deployment:** Managed deployment with AWS Amplify Hosting, creating a secure and scalable user interface, and enhancing load time and user engagement.
- **User Authentication:** Implemented Amplify Authentication for secure login/signup, improving security and accessibility.
- **Backend Architecture:** Created a scalable backend using AWS AppSync and GraphQL API, supporting efficient, real-time data management.
- **Database Management:** utilized DynamoDB for data storage, leveraging AWS's server-less architecture for minimal latency and optimized data retrieval.
- **Media Storage:** Configured S3 for user-uploaded images, providing secure and efficient media storage and enriching application functionality.
- Developed a scalable bucket list tracker application on AWS, achieving 99.9% uptime by utilizing AWS Lambda, S3, and DynamoDB, plus implemented CI/CD pipelines that reduced deployment time by 50%. Built API integrations to sync data across services and improve operational workflows.
- **Developed and deployed a scalable cloud-based application utilizing AWS services**, increasing user engagement by 25% by integrating features such as real-time updates, personalized bucket list recommendations, and social sharing capabilities.

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## PROJECTS

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**AWS AI-POWERED CHAT BOT**

*December 2024 - Present*

AWS Web Services • <https://github.com/ovalles2019/Bedrock-Chatbot>

- Technologies: AWS Bedrock, Python, Boto3, Stream-lit, Anthropic Claude-v2.
- Develop a multilingual chatbot using AWS Bedrock for educational purposes, capable of answering user queries and providing current time information.
- Integrated AI-driven natural language processing with real-time user interaction through a stream-lit web interface.
- Deployed a highly scalable AI-powered multilingual chatbot using AWS Bedrock, increasing user engagement by 40% and supporting real-time query resolution.

**AWS SERVER-LESS CHAT APPLICATION**

*Feb 2025 - March2025*

AWS Web Services •

- Build a server-less chat application using AWS Lambda, DynamoDB, API Gateway, S3, Cognito, CloudFront.
- Developed a server-less chat application leveraging AWS Lambda, DynamoDB, API Gateway, S3, Cognito, and CloudFront, achieving 99.9% uptime and reducing infrastructure costs by 40%.

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## CERTIFICATIONS

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**Certified Cloud Practitioner**

AWS • 2024

**Certified Solutions Architect**

AWS • 2025 (In process)

**Leadership Experience**

*AWS Cloud Club | Core Team Member | UTD Chapter, Dallas, TX*

- Organized and led AWS workshops on server-less, networking, and DevOps, helping peers gain hands-on cloud experience.
- Coordinated events with 100+ attendees by managing logistics, cross-team collaboration, and community engagement.
- Mentored students on cloud career paths and certification prep, strengthening the talent pipeline for AWS professionals.

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## SKILLS

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**Languages:** Python, JavaScript, Node.js, SQL, C++

**AWS:** Lambda, API Gateway, DynamoDB, S3, CloudFront, Cognito, AppSync, Amplify

**Integration:** REST, GraphQL, OAuth/Cognito, webhooks

**Dev Practices:** Git, CI/CD, testing (pytest/jest), Agile/Scrum, logging/monitoring