Jeremiah Webb

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Education

Embry-Riddle Aeronautical University   Daytona Beach, FL

Master of Science, Computer Science, concentration of cybersecurity   *May 2025*

Bachelor of Science, Computer Science, concentration of cybersecurity, GPA: 3.61, Cum Laude   *May 2024*

Minor, Electrical & Computer Engineering, GPA: 3.73   *May 2024*

Experience

Embry-Riddle Aeronautical University   September 2021 – Present

Cybersecurity Lab Manager & Teacher Assistant   *Daytona Beach, FL*

· Responsible for updating and maintaining the university's unique air-gapped cybersecurity computer lab.
· Currently setting up and installing Proxmox & SmartDeploy software to expedite the process of updating operating systems and software for 30 lab computers, resulting in a 300% reduction in lab downtime.
· Actively assisting university professors with cyber forensics, Kali Linux, Cryptography, and penetration testing classes.

Amazon Web Services   May – August 2022 & May – August 2023

Solutions Architect Intern   *Seattle, WA*

· Designed and implemented a serverless architecture for AWS Cognito authentication, incorporating QR code scanning for user convenience.
· Developed AWS Lambda functions (Go and Python) to manage encryption, verification, and system key generation, along with a REST API Gateway for user group authentication with Cognito in conjuction with a React web client and a DynamoDB database, ensuring encrypted data storage.
· Established a serverless HIPAA-compliant data ingestion pipeline utilizing Amazon Comprehend, Transcribe, and S3 to transcribe and sanitize terabytes of audio data, removing PHI and PII.
· Implemented Lambda functions (Rust) with AWS SDK, SQS, and SNS for serverless decoupling, and built a user-friendly dashboard for file management using Amplify and React.

Projects

Project Stocky |*Python, Java, REST, NumPy, YFinance, MariaDB, SQL*

· Developed a full stack application with a user-friendly GUI, offering real-time stock market insights by analyzing technical indicators and determining bullish, bearish, or neutral sentiments for short and long-term investment strategies.
· Utilized MariaDB database to efficiently manage and store raw stock data, ensuring data integrity and retrieval performance. Integrated YFinance and twelveData REST APIs to source and update stock data, enhancing the application's accuracy and reliability.

White Hat Cybersecurity Eagles Captain |*Git, Kali Linux, Pentest, cross-site scripting, Ida Pro, AWS*

· Capture the Flag Captain: Instruct and teach cross-site scripting, Metasploit framework, active directory security, and man in the middle attacks in Kali Linux, prepare White Hat Cybersecurity Eagles for NCAE CyberGames.
· Team won third place in the state of Florida, help set up training labs for new team members in HacktheBox and AWS.

CyberTool Analysis Tool |*Git, Rust, AWS, Lambda, Technical Lead, Linux, NoSQL, REST, React*

· Tech lead for 6 student team in class project "CyberTool". Worked with Embry-Riddle faculty to implement a mechanism and product for infrastructure security viability analysis of over 100 aerospace industrial recognized cybersecurity tools.
· Developed automatic comparison PDF report of cybersecurity tools for user in Rust leveraging AWS Lambda, API Gateway. Assisted with project management, software design and requirement documentation.

Technical Skills

Languages: Java, Python, C/C++, SQL, (Postgres), JavaScript, HTML/CSS, R, GraphQL, Bash, Go, Arm Assembly, Rust

Frameworks & Libraries: Pandas, NumPy, Matplotlib, React, Node.js, WordPress, jQuery, Django, AWS SDK

Certifications: AWS Certified Cloud Practitioner, AWS Certified Solutions Architect – Associate, AWS Certified Developer – Associate, MTA: Windows Server Administration, Security, Networking Fundamentals

Tools: Git, Arch Linux, Docker, AWS (Comprehend, EC2, DynamoDB, VPC, Cognito, S3, IAM), CMake, ProxMox, Windows Active Directory, Cargo, CloudFormation