

Charles David Barrineau

Solutions Architect

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Onley, Virginia, 21418, United States

Experienced Senior Solutions Architect with 25+ years of expertise in designing innovative, scalable, and secure technology solutions. Strong background in cloud computing, microservices, and enterprise architecture, with a focus on aligning business goals with IT strategy. Proven leader in driving digital transformation and delivering high-impact solutions across diverse industries.

Core Skills

Excellent problem-solving skills,
Excels at communication with
stakeholders of cross-functional teams,
Quickly adapt to changing requirements
and technology,
Passionate about keeping up with the
latest trends in technology,
Driving technical visions,
Focused on delivering value and
ensuring long-term scalability and
maintainability,
Extensive experience of turning
customer visions into reality from
requirements to deployment to
operations

Education

Salisbury University

Dec 1998

Bachelor of Science Mathematics

Certificates

AWS Certified Architect - May 2023

Professional

Amazon Web Services

AWS Certified Security Jun 2023

Specialty

Agile Project Management Jun 2022

edX - University of Maryland

Soft Skills Feb 2020

edX - RITx

ISAQB Certified Architect Dec 2024

*International Software Architecture
Qualification Board*

Work Experience

Senior Solutions Architect

Jul 2001 - Present

[Phoenix Defense](#) | Oviedo FL

Work closely with customers, end-users, and developers to architect and implement multiple Department of Defense projects used to train and qualify Army and Marines various platforms from small-arms to aviation. Projects allowed training throughput to increase by as much as 80% thereby saving money and time.

- Leveraged fluency in written and verbal communication with customers, senior, and junior team members to deliver high-value solutions, resulting in successfully deployed software systems used by prominent organizations like Marriott and the US military.
- Exhibited proficiency in working with customers to convert business needs into requirements and user stories, architecting large multi-staged systems including n-tier, microservices, event-driven, and queue-based architectures. Also demonstrated capability in implementing these requirements into code and conducting unit and system level tests.
- Extensive use of the C4 and Domain-Driven Architectures for modeling architectures with strong emphasis on SOLID principles utilizing tools such as Enterprise Architect and Magic Draw.
- Extensive use of Unified Modeling Language (UML) for documenting architectures and designs.
- Utilize AWS for aggregating Army training data with technologies such as RDS, ECR, Fargate, S3, Route 53, CloudFront, CloudFormation, Amplify, and other AWS Services.
- Utilize AWS for creation of military Training Events that give context to force-on-target control by controlling targets and gathering scoring data for shooters. Use of AWS RDS, EC2, Autoscaling Groups, Load Balancers, Route 53, CloudFront, CloudFormation.
- Work in modern frameworks and tools such as Spring, JPA, Postgres, C#, Java, Python, RabbitMQ.
- Extensive experience with Agile methodology including SCRUM utilizing tools such as JIRA.
- CI/CD experience with tools such as GitHub, Jenkins, AWS Code Pipeline, BitBucket.

Software Engineer

Jan 1998 - Dec 2001

Lockheed Martin

Software Engineer at Kennedy Space Center, Florida on a project that launched the Space Shuttle. Duties included designing and writing JNI code that allowed Java UIs and C back-end to communicate with each other.

- Utilize UML to document designs
- Utilized distributed architectures for client-server communication
- UNIX SUN Solaris