Ethan W. Backhus

Software Engineer

CONTACT

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Fort Lauderdale, FL 📍

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https://github.com/EthanBackhus 🔗

EDUCATION

Bachelor of Science
Computer Engineering
Minor in Spanish
Florida State University
August 2018 - April 2022
Tallahassee, FL

GPA: 3.21/4.0
Alpha Tau Omega Fraternity
Dean's List 2018, 2019

SKILLS

C#
TypeScript
Rust
C++
C
Anchor
Python
MySQL, MongoDB
.NET Core
HTML5
CSS
Git
Docker
Unit Testing
Object-Oriented Programming
Azure Cloud Services
Microservices Architecture
MVVM Architecture
Agile Development

WORK EXPERIENCE

AeroVironment
Dec 2023 - Present

Software Engineer
Sunrise, FL

- Developed and maintained full-stack .NET applications, building WPF (XAML) front-ends and C# backend business logic
- Owned the WPF UI layer as the team's go-to developer, resolving bugs, delivering enhancements, and improving user experience
- Managed build and deployment processes, tracking IPK versions and configurations across multiple environments
- Integrated REST APIs/services to synchronize data between local applications and external systems
- Mentored summer interns across two years, providing technical guidance, code reviews, and onboarding support
- Provided hands-on leadership to interns, helping them ramp up quickly and contribute meaningful features to the application
- Implemented unit and integration tests to improve code reliability and reduce production bugs
- Collaborated in an Agile/Scrum environment, contributing to requirements gathering, sprint planning, and peer reviews

Honeywell
May 2022 - Dec 2023

Software Engineer
Atlanta, GA

- Developed and maintained RESTful APIs in C#, built on the .NET Core framework on various cloud and hybrid cloud environments
- Built web applications within a microservices architecture, resulting in scalable and reliable systems
- Designed and maintained databases, both relational (MySQL) and NoSQL (MongoDB), ensuring data integrity, performance, and scalability
- Successfully utilized Scrum and Agile methodologies to manage project timelines and deliver high-quality products on time
- Leveraged Azure Cloud technologies, such as Event Hubs and Azure Insights, to capture and ingest telemetry data
- Collaborated with cross-functional teams, including product owners, UI/UX designers, and business stakeholders, to gather and refine requirements for software projects
- Wrote extensive unit tests to cover functionality of new and existing code bases, to ensure software reliability and reduce the number of production defects
- Created and managed containerized applications using Docker, optimizing deployment processes and enabling seamless scaling