




# Ethan W. Backhus

## Software Engineer

### CONTACT

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### 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