

# Zachary Alleman

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## TECHNICAL SKILLS

**Summary:** 6 years experience in developing software for Windows systems using the .NET development platform including, C#, WPF, and SQL.

**Programming Languages:** C#, Visual Basic 6

**User Interface Technologies:** WPF, Winforms

**Web Development:** HTML, CSS

**Database:** SQL, Microsoft SQL Server Management Studio

## TECHNOLOGY EXPERIENCE

**Software Engineer,** CentralSquare Technologies

October 2017-February 2024

- Developed a service to recurrently notify officers to be on the lookout for individuals or vehicles that may have been involved in an incident.
- Created an interactive display to show the statuses of all police units active in a given jurisdiction.
- Worked on replacing the legacy VB6 product with modern .NET software.
- Supporting and providing new features for software used to dispatch emergency services using a variety of technologies including: .NET, WPF, SQL, and Visual Basic 6.

**Senior Capstone Project,** UNCA

Fall 2016

- Developed a web application that served as a class scheduling aid for students. Allowed users to create a mock schedule that would display time conflicts between them.
- Used the schools class scheduling database to provide the app with up to date class schedules.
- Designed using basic web development tools, a MySQL Database, and hosted using Amazon Web Services.

**AI Project,** UNCA

Spring 2016

- Created a program capable of playing the board game Othello.
- Using text input, the machine could compete against other machines and humans.

**IT Service Desk Intern,** Mission IT Dept, Asheville, NC

February-April 2016

- Wrote software allowing hospital workers to easily backup files.
- Maintained hospital SQL database under supervision by the Database Administrator.

**Summer Engineering Program,** NC State University, Raleigh, NC

Summer 2011

- Created an autonomous robot capable of following a white line.
- Assembled custom control circuitry and programmed it to control an RC car.

## EDUCATION

**University of North Carolina at Asheville**

Graduated Dec 2016

- Bachelor of Science in Computer Science, Concentration in Computer Systems
- Relevant Coursework: Database Management Systems, Web Technology, Computer Vision, Game Programming, Artificial Intelligence, Software Engineering