

# Adam Botens

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## EDUCATION

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### Austin Peay State University

Clarksville, TN

*Bachelor of Science in Computer Science, Minor in Mathematics*

December 2023

- Summa Cum Laude; GPA: 3.92/4.0
- Participant in APSU's Innovation Experience
- Volunteer Judge, Lego League Robotics Competition

## RELEVANT COURSEWORK

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- **Computer Science:** Artificial Intelligence, Cloud Computing, Algorithm Design and Analysis, Data Structures and Algorithms, Principles of Database Management, Operating Systems, Object-Oriented Programming, Computer Organization, Programming Languages, Robotics, Introduction to Programming, Principles of Information Security.
- **Mathematics:** Machine Learning, Statistical Methods, Linear Algebra, Discrete Mathematics, Calculus.

## PROJECTS

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### PolitiPulse

- Collaborated within a team to conceptualize and construct a web-based platform for aggregating local congressional data. Also implemented an LLM feature to condense and remove jargon from congressional bills.
- Focused on content storage, display, and database architecture.
- Achieved successful aggregation and display of data from frontend to backend.

### Stock Market Predictor

- Developed a program in Python and Jupyter Notebook for analyzing a company's stock history, identifying trends, and applying machine learning models to the collected data.
- Implemented an Object-Oriented Programming approach, facilitating experimentation with search variables and enabling easy future design expansion.
- Despite challenges in achieving consistent accuracy, identified opportunities for future enhancements and algorithm optimization.

### Powerlifting Database

- Developed a normalized relational database for powerlifting events, ensuring efficient data integrity and query performance.
- Crafted advanced SQL queries for robust performance analytics and event management insights.
- Designed data models to link athletes, records, and events, providing potential stakeholders real-time competition analytics.

## CERTIFICATIONS AND SKILLS

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- **Certifications:** Coursera: Google IT Support Specialization.
- **Languages:** JavaScript, Python, C#, XAML, SQL, Java, C++, C, HTML, CSS, PHP.
- **Tools and Technologies:** NoSQL, MySQL, React, Node.js, Google Cloud, RESTful APIs, Docker, Express, React Native, Pandas, Scikit-learn, Jupyter Notebook, NumPy, Excel, RStudio.
- **Operating Systems:** Windows, MacOS, Linux.

## PROFESSIONAL EXPERIENCE

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### United States Army, Team Leader

April 2014 – May 2018

- Led mission-critical operations, mirroring agile project management and timely execution in software development.
- Managed the operation and maintenance of complex artillery systems, demonstrating an aptitude for learning new technologies rapidly—a direct parallel to mastering new programming languages and software environments.
- Employed strategic planning and precise execution in high-stakes scenarios, reflecting a strong analytical mindset and problem-solving approach beneficial for developing innovative software solutions.