# Scott Fortune

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## EDUCATION

**University of Massachusetts Amherst**                                                     Amherst, MA
Bachelor of Science in Computer Science, Honors                          Expected Graduation: May 2024
- **Cumulative GPA:** 3.9
- **Current Coursework:** Artificial Intelligence, Computer Security, Computer Networks, Operating Systems
- **Completed Coursework:** Algorithms, Computer Systems, Data Structures, Programming Methodology, Computation, Object-Oriented Programming, Reasoning Under Uncertainty, Linear Algebra, Calculus
- Eligible for Accelerated Master's Program

**Awards:**
- Dean's List Honors for all semesters
- CICS Dean's Merit Scholarship for academic excellence

## PROJECTS

**Reverse Engineered Quadcopter** | Side Project
- Analyzed and deconstructed UDP and TCP packets sent to RC drone over Wi-Fi using packet sniffer
- Collaborated with team to develop Python code following drone's network and command structure
- Integrated a PS5 controller to pilot drone and rerouted video stream to output to computer screen

**Automated Rover** | Honors Seminar Final Project
- Researched and constructed a rover with DC motors, Arduino-Uno processor, and Pixy2 robot vision sensor
- Developed C++ code to automate movement and react to environmental stimuli such as color and position
- Presented orally to peers with a live demo and provided a conclusive final report with documentation

**8-Puzzle Solver** | Artificial Intelligence Course Project
- Complied with API to implement search algorithms such as Best-First-Search, A*, and Uniform Cost in Python
- Developed heuristic functions based on problem definition to optimize informed searches and gain efficiency
- Enhanced personal understanding of the search state, memory and time constraints, and data structures

**MySQL Authenticator** | Side Project
- Developed C# code to connect to local instance of MySQL database and provide user authentication service
- Encrypts password entries using SHA256 hashing algorithm, ensuring passwords are stored with confidentiality
- Configured code into abstract classes and concrete classes to allow for easy scalability and understandability

## SKILLS

**Languages:** C, C++, Python, Java, C#, SQL, JavaScript, HTML, CSS
**Applications:** GitHub, Visual Studio, .NET Framework, Wireshark, MySQL, Linux, Windows, Microsoft Office
**General:** Embedded Systems, AI, Testing, Debugging, Database, Problem Solving, Teamwork, Communication

## WORK EXPERIENCE

**Chipotle Grill**                                                                        Mansfield, MA
Line Chef                                                                                 Summer 2021
- Fulfilled mobile orders using user interface, managed supply of ingredients, and adapted to customers' needs
- Collaborated with diverse team and frequently asked questions to coworkers with more experience

**Amazon**                                                                                 Milford, MA
Warehouse Associate                                                                       Summer 2020
- Utilized new industry software to locate packages, organize outgoing bins, and stage loads for delivery
- Learned to navigate through busy warehouse and practice industrial-level safety procedures