

Matthew Cummings

520.468.1645 • mpc.ender@gmail.com

EDUCATION

Bachelor of Science in Software Engineering <ul style="list-style-type: none">Summa Cum Laude (GPA: 4.0)Dean's List (all semesters)	<i>Arizona State University</i>	6/2021 – 5/2023
Associate of Science in Computer Science <ul style="list-style-type: none">with Highest Distinction (GPA: 4.0)Honors (4 semesters) & Phi Theta Kappa inductee	<i>Scottsdale Community College</i>	8/2018 – 12/2020

HONORS & AWARDS

STEM Oral Presentation 1st Place Award <ul style="list-style-type: none">Awarded 1st place prize with scholarship award for my presentation investigating the correlations between Artificial Intelligence and human cognition. Demonstrates ability to communicate complex technical concepts to a non-technical audience.	4/2019
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TEACHING & MENTORING

Math & Computer Science Tutor <ul style="list-style-type: none">Provided in-person tutoring utilizing the Socratic method to relate object-oriented, functional, and logical programming concepts.Co-created and administrated a college sanctioned discord tutoring channel boasting 126 members.Actively maintained and assisted students for several years after graduation.	8/2019 – 5/2023
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PUBLICATIONS

Cummings, Matthew. "Artificial Intelligence: Costs and Benefits of Associations with Human Cognitive Functions." Two Waters Review, SCC English Dept. Scholarly Journal, Spring 2019, pp. 9-22. [URL: <https://issuu.com/scottsdalecc/docs/two-waters-review-20190918/12>]

CONFERENCE PRESENTATIONS

ORAL PRESENTATIONS

Cummings, Matthew. (2019, April). "Artificial Intelligence and human cognition", Maricopa Student Research Conference, Avondale, Arizona.

POSTER PRESENTATIONS

Brauer, J., **Cummings, M.**, Jeffries, C., Trang, A., Zimmerling, J. (2023, May). Advanced Arduino Library Support. Arizona State University Polytechnic Innovation Showcase, Mesa, Arizona.

CLUB ACTIVITIES

ASU SAE Formula EV: Digital Systems Automated Driving Team <ul style="list-style-type: none">Developed machine learning skills through researching, training, and testing TensorFlow models for autonomous driving and image recognition.	9/2021 – 12/2022
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CLUB ACTIVITIES CONTINUED

Scottsdale Community College Robotics Club

9/2018 – 5/2019

- Applied programming knowledge in C and C++ to control and test new robotic systems.
- Demonstrated organizational and communication skills as club Secretary, recording activities and progress and relaying information to college leadership.

PROJECTS

Product Recommender System Trained from Web Scraped Data Set

9/2022

- Developed LightFM recommender system. Demonstrates proficiency in machine learning and data analysis.
- Demonstrated expertise in data pre-processing and cleaning through the formatting of a large dataset.
- Utilized python for web scraping, highlighting proficiency in data acquisition and preprocessing techniques.

WORK EXPERIENCE

Software Developer

General Motors

6/2023 – Present

- Elevated the quality and functionality of React Native and Java Spring Boot applications through rigorous bug fixing, updates, and the implementation of robust JUnit tests with Mockito, ensuring optimal user experience.
- Rescued a stalled Spring Boot microservice by rapidly identifying and resolving persistent crashes within the Pivotal Cloud Foundry (PCF) servers utilizing ELK logging to diagnose, demonstrating a strong troubleshooting aptitude and dedication to maintaining system stability.
- Contributed to migration efforts of legacy applications from Pivotal Cloud Foundry (PCF) to Kubernetes and Docker, containerizing critical systems for enhanced scalability and efficiency.

Software Engineer

Auction Synergy

11/2018 – 6/2023

- Innovate current business processes by designing solutions to real-world business use cases based on stakeholder collaboration. Demonstrates proficiency in design, communication, and software development.
- Design, develop, and maintain [Android Java mobile application](#) to automate internal business processes. Demonstrates proficiency in customer focus, self-directed learning, and adaptability.
- Design, develop, and maintain custom logistics management module developed with Google Cloud Scripts & Python (Selenium). Showcases skills in problem-solving and data aggregation.

Web Developer

Phoenix College

6/2020 – 6/2023

- Demonstrated expertise in iterative stakeholder driven design to elicit and implement software requirements.
- Showcased proficiency in front-end web development technologies by creating JavaScript web applications. ([GeoAngles](#), [Multibase N Blocks](#), [Fraction Multiplication with Paper Folding](#))

Software Engineer Intern

Qwick

5/2020 – 8/2020

- Developed in AWS and generated GitLab wiki resources for internal use based on the current codebase. Demonstrates proficiency in code comprehension, documentation, and collaboration tools.
- Gained exposure to DevOps and Agile methodologies through active participation in scrum and CEO-led round table meetings.

WORK EXPERIENCE CONTINUED

Assistant Manager *QuikTrip* **1/2015 – 9/2018**

- Managed teams of up to 15 in fast-paced environment demonstrating team management & communication.

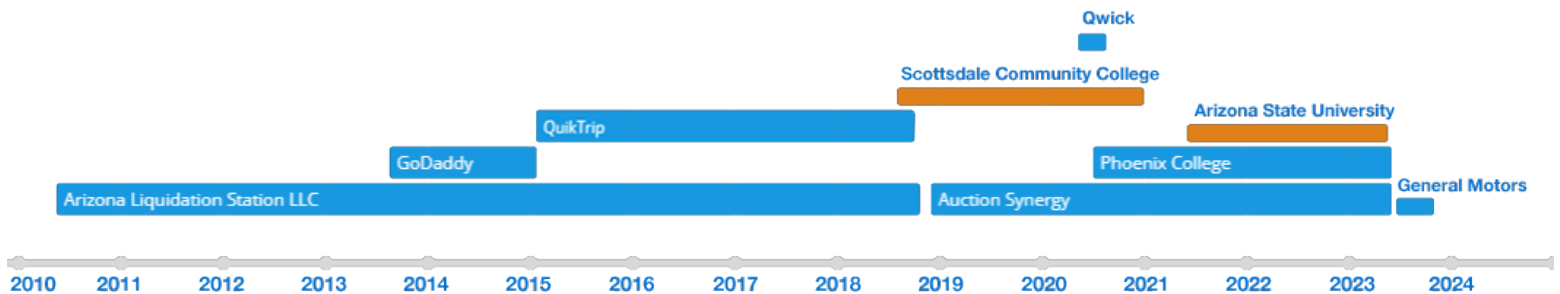
Server Support Specialist *GoDaddy* **8/2013 – 1/2015**

- Manage VPS and dedicated server accounts demonstrating problem resolution analysis and troubleshooting.
- Provide server recommendations demonstrating technical simplification communication & client relations

Co-Owner *Arizona Liquidation Station LLC* **5/2010 – 10/2018**

- Developed IT refurbishing company demonstrating skill in business management & process design.
- Managed warehouse & administrative employees demonstrating team leadership & communication.
- Developed productivity & diagnostic scripts demonstrating analytic, innovation, & technical expertise.

WORK & EDUCATION EXPERIENCE TIMELINE



TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, React native, HTML, CSS, C++, C, Scheme, Prolog, Assembly, MATLAB

Tools & Platforms: Git, Docker, Android, Excel, SQL, Bash, AWS (EC2, S3), Azure (DevOps), Jira, Gitlab

Operating Systems: Windows, macOS, Linux (Ubuntu, Android)

Design & Creative Tools: Figma, Axure Prototyping, Adobe Photoshop, Adobe Premier, Avid Pro Tools

Soft Skills: Communication, Problem-Solving, Collaboration, Self-Directed Learning, Detail Oriented

REFERENCES

William Meacham, Professor of Computer Science
Scottsdale Community College, Scottsdale, AZ
480-423-6664, william.meacham@scottsdalecc.edu

Frank Marfai, Professor of Mathematics
Phoenix College, Phoenix, AZ
602-285-7164, frank.marfai@phoenixcollege.edu

John Haley, VP of Engineering
Qwick, Phoenix, AZ
480-779-9377, john@qwick.com

Vijayabanu Ragavan, Software Development Manager
General Motors, Chandler, AZ
734-727-4523, vijayabanu.ragavan@gm.com