

MATTHEW BRUMMUND

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EDUCATION

MS, Computer Science, (CS) - ASU 4+1 Accelerated Masters Program

Expected May 2027

- Arizona State University, Ira A. Fulton Schools of Engineering, Tempe, AZ. The accelerated program merges parts of the undergraduate and graduate programs. Coursework includes: Large data processing, machine learning, and cloud computing

BSE, Computer Systems Engineering, (CSE)

Graduated May 2026

- Arizona State University, Ira A. Fulton Schools of Engineering & Barrett, The Honors College, Tempe, AZ
- Graduated Magna Cum Laude (3.6 GPA) in 3 years. Completed the ASU Barrett, The Honors College program

SKILLS

Languages: C#, Python, JavaScript/TypeScript, SQL, Java, C/C++, Rust, MATLAB

Frameworks & Libraries: ASP.NET Razor Pages, Entity Framework, DevExtreme, React, Next.js, FFmpeg/OpenCV, Streamlit

Cloud & Infrastructure: SQL Server, AWS (Lambda, Step Functions, API Gateway, DynamoDB, S3, Bedrock, Redshift, ECS/Fargate, Cognito, IAM), AWS CDK, Terraform, Docker, GitHub Actions, CI/CD, Git, Linux

EXPERIENCE

RTX Corporation - Collins Aerospace, Supply Chain Software Developer Intern

May 2026 - Present

- Replaced legacy BOM (Bill of Materials) viewing tool; utilizing C#, ASP.NET Razor Pages, Entity Framework, SQL Server, and DevExtreme UI Components. Featured top-level component search, and sub-component where used lookup
- Cut multi-million-row query load times by ~99% (reduced from minutes to <2s), eliminating a major bottleneck in lookups
- Resolved outstanding support and enhancement tickets across multiple supported services, reducing the team backlog
- Internship was extended beyond the summer remotely to continue team backlog support, and replace additional legacy tools
- Communicated directly with clients and stakeholders while delivering iterative prototypes through bi-weekly sprints

AWS AI Cloud Innovation Center, Associate Cloud Developer

Apr 2024 - May 2026

- Delivered 5 full-stack AI-enabled cloud solutions for enterprise and government clients including: Tucson Police Department, ASU Enterprise Technology, Chandler Police Department, Orthodox Union, Our Journey Reentry Support
- ASU Enterprise Technology - Architected conversational AI system for institutional data using Bedrock Knowledge Bases with Redshift integration and Nova Pro, eliminating SQL expertise requirement for staff data queries
- Chandler Police Department - Delivered custom-built AI-powered traffic complaint portal, internal dashboard for officers with heatmap visualizations, and integrated Amazon Lex chatbot to interface with complaints
- Tucson Police Department - Created an automated document redaction and processing system to intake, redact, and track requests for police records. Redaction decision making and processing system enabled by AI, with required human review
- Worked across the full stack: IaC, backend APIs, and frontend (React, Next.js, Angular, Streamlit), while being mentored directly by AWS engineering and support staff throughout the projects

ASU LoCo Lab, DORA Satellite (Deployable Optical Receiver Aperture)

Launched Fall 2024

- Contributed Rust flight-software functions for sensor reads and selective telemetry return on a 3U CubeSat now in orbit, including error handling and logging for command edge cases in a zero-fault-tolerance environment

PROJECTS

WCAG Video Remediation Pipeline, Barrett Honors Thesis - [VideoRemediation](#)

August 2025 - May 2026

- Designed and built a fully serverless AWS pipeline and dashboard that remediates video to WCAG 2.1 Level AA across eight criteria, motivated by the DOJ Title II Final Rule and its April 2026 compliance deadline for public universities
- Architected nine Lambda functions orchestrated by Step Functions with media-type-aware branching, routing content down separate paths; integrated Amazon Transcribe, Rekognition, Bedrock Nova Pro, with OpenCV and FFmpeg
- Cut costs to \$0.83 per video minute against a ~\$5/min manual baseline (~6x cheaper) and ships a per-criterion compliance report with every video that traditional remediation vendors don't provide