

# MATTHEW BRUMMUND

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## EDUCATION

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### BS, Computer Systems Engineering (CSE)

Expected May 2026

- Arizona State University, Ira A. Fulton & Barrett, The Honors College • Tempe, AZ • Cumulative GPA: 3.78
- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Software Engineering Principles

## SKILLS

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### Programming Languages/Software

- Python, Java, Rust, C/C++, JavaScript/TypeScript, HTML/CSS, React, Next.js, SQL, Terraform (HCL)
- AWS CDK/SDK, Docker, Git/GitHub, Linux CLI, CI/CD (GitHub Actions, AWS CodePipeline), Agile/Scrum

### AWS Services

- Bedrock, Lambda, EC2, S3, DynamoDB, API Gateway (REST/WebSocket), CloudFront, OpenSearch, Redshift
- IAM, CloudWatch, VPC, CloudFormation, EventBridge, ECS/Fargate, Secrets Manager, CodeBuild/CodeDeploy

## EXPERIENCE

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### AWS AI Cloud Innovation Center, Associate Cloud Developer

Apr 2024 - Present

- Delivered 5 full-stack AI-enabled cloud solutions for enterprise and government clients including: The State of New Jersey, Chandler Police Department, Orthodox Union, ASU Enterprise Technology, Ohio State University
- 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
- Orthodox Union - Created RAG chatbot processing hundreds of hours of multilingual Torah lectures using Bedrock, OpenSearch, and custom Transcribe for Hebrew/Aramaic with timestamp citations
- Leveraged AWS cloud services to build full-stack applications with: IAC (Infrastructure as code), backend development focused on APIs, and frontend deployments build with React, Next.js, Angular, and Streamlit
- Collaborated on projects in a team setting designed around rapid prototyping • Followed Scrum principles including weekly sprints towards client meetings, and daily standup meetings • Effectively communicated with clients on projects

### DORA Satellite (Deployable Optical Receiver Aperture)

Launched Fall 2024

- Developed Rust functions for DORA (Deployable Optical Receiver Aperture) • a 3U CubeSat fielded by the LoCo Lab at ASU • Launched to orbit fall 2024
- Wrote various Rust functions to support critical information retrieval (reading sensors, and selective telemetry return)
- Handled error checking for edge cases in commands in a zero-fault-tolerant setting, as well as general debugging

## SPEAKING & RECOGNITION

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### 12 News (Phoenix), Chandler PD Portal Featured Technology Expert

Sept 2025

- Featured in news segment showcasing AI-powered traffic complaint system built for Chandler Police Department

### AWS Imagine 2024, Panel Speaker

July 2024

- Panelist for "AIM107: Building Positive Futures: The Adoption of Generative AI from Student and Higher Education Perspectives" alongside ASU leadership and AWS professionals