

George Badulescu

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EDUCATION

Arizona State University, Ira Fulton Schools of Engineering, Tempe AZ

Aug 2022 - May 2026

- Bachelor of Science in Computer Science | GPA: 3.85

Relevant Coursework

- Computer Architecture, Software QA and Testing, Foundation of Machine Learning, Distributed Software Development

EXPERIENCE

Software Engineering Intern

Jun 2025 - Aug 2025

Medtronic, Tempe, AZ

- Developed full-stack manufacturing analytics dashboard across 5 international production facilities using Next.js, TypeScript, C#, and Oracle Database, ingesting 10,000+ daily test files to automate quality control monitoring and real-time error tracking
- Engineered database optimization layer handling 1M+ Oracle records with SQL and Dapper ORM, implementing advanced search and filtering capabilities by serial number, lot ID, and date ranges while building export functionality and file management

Software Developer Intern

Jun 2025 - Aug 2025

Opportunity Hack, Remote

- Engineered scholarship management platform serving 1,200+ students across 15 nonprofits using Next.js, React, and MongoDB, automating workflows with multi-step forms, document uploads, tracking, and notifications to process \$70,000+ in scholarships
- Built admin dashboard with role-based access control, user management, and CRUD workflows, implementing advanced search and filtering capabilities, analytics with data export, and award tracking system to accelerate scholarship review processes

Full Stack Engineer

Jan 2025 - Jun 2025

DevX Solutions, Tempe AZ

- Led full-cycle development for 5+ clients using React, Node.js, TypeScript, Supabase, and AWS, building and deploying web applications to production while implementing CI/CD automation with GitHub Actions and integrating external APIs
- Architected database schemas and authentication systems using PostgreSQL and Supabase with row-level security policies, JWT-based access control, defining technical specifications and system design tailored to client requirements

Software Developer Intern

GBCS Group

Jan 2024 - May 2024

- Built CI/CD automation pipelines with GitHub Actions and Docker to streamline testing and deployment workflows while developing HR onboarding dashboard using React, Next.js, and Tailwind CSS, integrating backend APIs for data retrieval
- Engineered database optimization with PostgreSQL using Prisma ORM, implementing schema refinement, query tuning, and strategic indexing to improve application response times while building REST API endpoints for data integration

PROJECTS

PhishGuard 360

Oct 2025 - Nov 2025

- Awarded \$1,000 at Cyber 360° Spark Challenge for building a 3-layer AI phishing defense system in 24 hours using Next.js, Python, and Flask, detecting malicious URLs with 94% accuracy across 50,000+ test samples
- Designed adaptive threat detection architecture with real-time database, fine-tuned DistilBERT classifier achieving 92% F1 score, and LLM investigator using RAG to analyze suspicious content and generate detailed threat reports

RISC-V Compiler & Emulator for CS Education

Aug 2025 - Present

- Leading 5-person Agile team developing web-based RISC-V architecture emulator in .NET Framework for educational use, facilitating sprint planning, daily standups, and retrospectives across 8 completed sprints
- Architected MIPS-to-RISC-V converter and integrated visual workflow IDE using C# and .NET, enabling students to learn computer architecture through interactive simulations and parallel computing experiments

LEADERSHIP

The AI Society at ASU

Aug 2025 - Present

Technical Officer

- Built internal tools for event management and member engagement using React and Node.js to streamline event registration and improve workshop coordination for 300+ students
- Led AI workshops and delivered technical lectures to 100+ students on machine learning concepts, neural networks, and hands-on projects, mentoring members on student AI initiatives

SKILLS

Languages/Frameworks: Python, JavaScript, TypeScript, C#, Java, C/C++, React, Next.js, Node.js, ASP.NET Core, Express.js, FastAPI

ML & Data: TensorFlow, PyTorch, scikit-learn, pandas, NumPy, OpenCV, Hugging Face Transformers, Keras

Infrastructure/Databases: AWS (EC2, S3, Lambda), Docker, Git, CI/CD (GitHub Actions), Linux, PostgreSQL, MongoDB, Oracle

Certifications: AWS Certified Solutions Architect – Associate, DeepLearning.AI Machine Learning Specialization