

Blaise Varughese

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

University of Wisconsin - Madison

September 2023 - December 2026

B.S. in Computer Science, Economics - Math Emphasis

GPA: 3.719

- Relevant Coursework: Data Structures and Algorithms, Operating Systems, Linear Algebra, Multivariable Calculus, Mobile Programming, Econometrics: AI and Machine Learning, Data Analysis and Big Data, Software Security

WORK EXPERIENCE

Incoming Technology Development Program Associate

February 2027

Capital One

Chicago, IL

- February 2027 Start

Software Engineer Intern

June 2026 - August 2026

AT&T

Atlanta, GA

- Architected a full-stack Next.js/TypeScript/tRPC application to visualize network topology across 14,000+ vendor relationships for 15+ users with optimistic concurrency control preventing edit conflicts, containerized with Docker.
- Optimized IP geolocation for 240,000+ addresses via binary search to cut runtime from 4 hours to 2 minutes (99.2%).
- Redesigned internal file logging service with concurrent log scanning, reducing CPU utilization by 75% (32% to 7.6%).
- Deployed Grafana dashboards for file share health of 50+ daily vendors, cutting log checks from 5 minutes to 5 seconds.
- Rebuilt Meraki/Databricks pipeline for 4,400+ sites, correcting devices misreporting up to 24 hrs/day of presence time.

Software Engineer Intern

May 2025 - August 2025

Northwestern Mutual

Milwaukee, WI

- Reduced invoice generation time by 75% for 1,000+ records with a Python/Streamlit app using PDF streaming.
- Automated PDF distribution to 200+ stakeholders, removing 95% of manual email workflows via Power Apps.
- Reduced environment setup issues by 50% with a containerized CI/CD pipeline using Docker and GitHub Actions.

Software Engineer Intern

May 2024 - August 2024

DarDoc

Remote

- Built 5+ Android screens with Kotlin/Jetpack Compose, improving load times by 25% for scheduling features.
- Applied MVVM and SOLID principles, resolving 15+ high-severity bugs and cutting resolution time by 30%.
- Streamlined core navigation, reducing interaction steps by 20% and improving accessibility across the application.

PROJECTS

RegenMed Circle Health Coin | .NET C#, Node.js, PostgreSQL, AWS, Solidity

January 2026 - April 2026

- Developed a blockchain patient consent system in .NET C# and Node.js on AWS with cryptographic PHI protection.
- Architected a Solidity smart contract layer linking patient UI to a PostgreSQL pipeline for HIPAA-compliant tracking.
- Updated patient-facing UI to surface blockchain transaction states and token rewards using React and Node.js.

TECHNICAL SKILLS

Languages: Java, Python, Kotlin, JavaScript/TypeScript, C, SQL

Frameworks: Next.js, React, Spring Boot, Jetpack Compose, JUnit, Espresso

Tools/Platforms: PostgreSQL, Docker, GitHub Actions, AWS (EC2, S3), Linux, Prometheus, Grafana, GitHub Copilot

Concepts: REST APIs, CI/CD, Agile/Scrum, Unit Testing, Git, Fullstack Development, DevOps, Automation, Infrastructure

EXTRACURRICULARS

Competition Secretary

February 2024 - Present

Badger Olympic Weightlifting Club

Madison, WI

- Directing planning and logistics for 10+ regional meets, including mock competitions for 50+ members.
- Managed a centralized spreadsheet of 15+ local gym partnerships to streamline event coordination.
- Increased club membership by 20%+ through outreach initiatives and beginner-friendly training programs.