Sammy Beard

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EDUCATION

University of Georgia, School of Computing — Athens, GA
Bachelor of Science in Computer Science, Certificate in Applied Data Science — *May 2025*
Magna Cum Laude - GPA: 3.78/4.00
Phi Beta Kappa Honor Society

SECURITY CLEARANCE

Secret (DoD) - Active

EXPERIENCE

Software Engineer — September 2025 - Present
U.S. Department of Defense — *Warner Robins, GA*
- Maintained service bus middleware, routing and brokering data between multiple projects
- Developed containerized microservices with Kubernetes, Java/Spring Integration/XML
- Executed integration tests to ensure cross-service reliability
- Built and maintained CI/CD pipelines for containerized deployments

Software Engineering Intern — June 2024 - July 2024
U.S. Department of Defense — *Warner Robins, GA*
- Led the development of a project management tool to track metrics and sprint operations for over 130 engineers across multiple projects
- Utilized Scrum and AGILE principles to manage and streamline development processes
- Designed relational databases using PostgreSQL and Docker for robust data storage and scalability

PROJECTS

claimex - GitHub — November 2025
- Built a CLI tool to extract structured claims from PDF documents
- Integrated spaCy SpanCat trained on 1,500+ labels to detect claim spans, sources, and more
- Implemented a concurrent pipeline, streaming files from Go to Python for parallel text extraction and NLP analysis

CSV-JSON API - GitHub — June 2025
- Developed a stateless Go REST API for CSV–JSON conversion using concurrent file handling and remote URL support
- Implemented robust file validation and error handling for reliable file processing
- Leveraged Go concurrency for parallel file conversion

FarmSmart AI – Capgemini (Senior Capstone Project) - GitHub — August 2024
- Deployed a Raspberry Pi–based IoT sensor network integrated with weather APIs to collect real-time soil and environmental data
- Trained a Random Forest regression model to predict soil health and optimize crop yield
- Stored sensor data in Azure Cloud and visualized metrics and model outputs on a dashboard
- Integrated real-time weather API data with OpenAI GPT to provide AI-driven, location-specific farming recommendations

TECHNICAL SKILLS

Languages: Go, Python, Java, SQL, JavaScript
Frameworks & Libraries: Flask, SQLAlchemy, Spring Integration, spaCy (NLP), Node.js, React
Databases & Storage: PostgreSQL, MongoDB, MinIO (S3-compatible object storage)
Cloud & DevOps: AWS (Lambda, S3, IAM), Azure, Docker, Kubernetes, GitLab CI/CD, Docker Compose
Developer Tools & Environments: Git, Linux, Bash, Zsh, SSH