

# Anthony Bell

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## Professional Summary

Versatile software engineer with internship and full time experience spanning full stack web development, cloud infrastructure, and data driven research. Proven ability to implement Amazon Web Service solutions and deliver production ready UIs. Adept communicator who excels at cross-functional collaboration with product and DevOps teams. Eager to leverage best practices and innovative technologies in a challenging, growth oriented environment.

## Education

University of Massachusetts Amherst B.S. Computer Engineering, GPA 3.7 (May 2024)  
Commonwealth Honors College

## Technical Skills

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

Frameworks: Angular, React, Spring Boot, Flutter, TensorFlow, PyTorch

Cloud & DevOps: AWS (Lambda, API Gateway, S3, EC2), Kubernetes, Docker, Kafka, GitHub Actions Testing: Pytest, Jest, Cypress, Gauge/Taiko

Tools: OpenAPI/Swagger, Pandas, PySpark, Terraform

Hardware: ARMv8, FPGA Design

## Experience

### Epsilon Software Engineer Intern & Full-Time | Boston, MA | Jun - Aug 2023, Jun 2024 - Present

- Implemented kernel level microservices in Python that enforced role based access control and protected PII across a multi tenant metadata platform, supporting enterprise clients.
- Integrated services with AWS Lambda, API Gateway, and Kafka streams; published OpenAPI contracts to enable frictionless frontend consumption and third-party integrations.
- Developed Angular administrative dashboards to visualize data governance policies and enable user permission enforcement requests, significantly reducing access related support tickets.
- Established comprehensive test suites (Pytest, Angular unit & Gauge Taiko) and CI pipelines in GitHub Actions, ensuring 100% test coverage and rare rollbacks post deploy.
- Mentored 2 junior engineers and assisted in intern interviews.

### Nielsen Media Data Software Engineer Intern | Cambridge, MA | Jun 2022 - Aug 2022

- Automated Kubernetes deployments on AWS EKS with Helm, ensuring faster, more consistent database querying.
- Designed a Spring Boot microservice that streamed cross-media audience metrics from PostgreSQL to a consumer dashboard, reducing query latency and improving the real time responsiveness of the application.
- Implemented observability with Grafana and CloudWatch to monitor API performance and database health.

### Readlee Software Engineer Intern | Cambridge, MA | Sep 2020 - Aug 2021

- Delivered Flutter UI components for an edtech reading platform.
- Prototyped a feature enabling teachers to assign nearly any free online book to students.
- Collaborated in Agile sprints with product designers to prioritize user experience enhancements.

## Projects & Research

### Satellite Income Estimator Honors Thesis | Amherst, MA | February 2023 - May 2024

- Built a computer vision pipeline that leveraged publicly available satellite imagery and a custom CNN to predict per-capita income in data scarce regions.
- Investigated how different temporal frequencies, spatial resolutions and spectral bands affect the models predictive accuracy.
- Presented findings in different academic settings, including the Massachusetts Undergraduate Research Conference.