

John Griffin Koontz

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EDUCATION

Major: Bachelor of Science Comp Engr. - Software Option.

University of Miami, Coral Gables, FL

Dec 2023

GPA: 3.6/4.0

RELEVANT COURSEWORK

2014 – Dec 2023

- **Mathematics:** Calculous I & II, Linear Algebra, Discrete Mathematics, Introduction to Engineering Probability
- **Software Engineering/Computer Science:** Data Structures and Algorithms, Systems Programing, Software Engineering and Architecture, Embedded Microprocessor System Design, Computer Organization and Design, Machine Learning, Artificial Intelligence
- **Other:** University Physics I, II, & III

EXPERIENCE

Software Development Engineer, AWS GuardDuty Malware Protection

Sep 2024 – Jan 2026

- Contributed to the launch of new GuardDuty capabilities, including On-Demand S3 Malware Scanning and GuardDuty for AWS Backup
- Owned and executed six AWS region launches of GuardDuty Malware Protection, including deployment into high-security partitions (GovCloud and EUSC)
- Designed and implemented cross-partition data transfer architecture using AWS CDK, Lambda, S3, and IAM, built with extensibility to support future partitions.
- Served as a primary on-call engineer for a security-critical, customer-facing distributed system, requiring deep end-to-end understanding of service architecture, operational risks, and failure modes.
- Led development of operational automation using Lambda, Step Functions, and S3 to detect and remediate known customer-induced scan failures, reducing human-intervention incidents from ~2/month to ~1/quarter.
- Built an internal AI-assisted diagnostic tool using AWS Bedrock to accelerate on-call analysis and enable self-service access to service metrics.

Undergraduate Research Assistant, Department of Engineering

June 2023 – Sep 2023

- Gathered and read previous research in the field of object detection in underwater environments, gaining a better understanding of the state of the field.
- Annotated underwater video footage of Yellowfin grouper spawning to be used as training and test data.
- Worked with OpenCV, Darknet, and YOLO detection models to perform fish detection on dataset
- Collected results into a package and wrote a scientific report summarizing the work.

SDE Intern, Amazon

Aug 2022 – Nov 2022

- Designed a generalized component for collecting user feedback across the Amazon Ads Application.
- Designed and implemented a solution for improving the accuracy of data provided by an API using Java and Typescript.
- Worked with AWS Services such as Lambda, Pipelines, and DynamoDB.

SKILLS

Programing Languages

- Typescript, Java, Python, C++, C, Rust, Assembly, VHDL, Shell Scripting.

Software / Libraries

- AWS, Git, NextJS, React, NumPy, Pandas, PyTorch, Adobe Photoshop