

Colin R. Moran

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Software Engineer & Architect

A results-driven, software development specialist with experience creating innovative, consumer-centric software. Interested in pursuing a career as an architect focused on delivering business needs and growing on-team leadership.

Areas of expertise include:

- Software Development: Scala, Rust, Java, Python...
- Incident triage
- AWS Solutions Architect
- Open Source Contribution
- Agile Methodologies
- DevOps
- Collaborative Leadership
- Team Building

PROFESSIONAL EXPERIENCE

AXON, Marysville, OH (Remote)

2022-Present

Software Engineer

Software developer of various full-stack features, encompassing problem analysis, proposal generation, and alignment with product objectives.

Key Contributions:

- Improved code coverage to 80% across all four reporter services, added metrics and monitoring, reducing mean-time-to-discovery.
- Revamped the report generation process, enhancing its efficiency as a synchronous task, while concurrently achieving substantial reductions in code complexity. This overhaul not only bolstered maintainability but also ensured greater data consistency across generated reports.
- Successfully implemented indexing for a new entity type, significantly reducing the load on the SQL Server.
- Authored comprehensive architecture diagrams for various services, enhancing high-level visibility into system structures.
- Conducted interviews with more than 100 software engineering candidates and provided guidance and mentorship to junior and mid-level developers.
- Participated in a rotating on-call schedule to monitor, troubleshoot, and resolve critical system incidents, ensuring high service availability and rapid response to minimize downtime.

CAS, Columbus, OH

2021-2022

Enterprise Architect

Architect specializing in machine learning operationalization for the enterprise, overseeing strategic decisions in this domain.

Key Contributions:

- Responsible for the selection of an enterprise data science and machine learning (DSML) platform, documenting rationale through frameworks, solution scorecards, and reference architectures.
- Designed and developed a scalable bipartite graph, fuzzy match based solution for citation matching using Flink.
- Collaborated with senior colleagues to drive the refinement of our processes, bringing about improved transparency in the architect's contributions. This effort facilitated consensus-building among technology teams and their stakeholders, ensuring alignment on crucial technology decisions.
- Established a machine learning community of practice along with best practices around operationalized and productionized machine learning pipelines.

- Advocated for a significant cultural transformation by championing the adoption of principles like extreme ownership, subordinate missions, agility, and automation. Successfully showcased the implementation and value of these principles to executive leadership through the experiences of two teams.

CAS, Columbus, OH

2019-2021

TAP Engineer

Part of a division-wide Talent Acceleration Program (TAP), exploring different teams across all of CAS technology.

Key Contributions:

- Lead team responsible for migrating on-premise applications to AWS, responsible for breaking down work, connecting with AWS experts, and designing solutions
- Designed architecture and enabled pivot to AWS native serverless solutions, greatly reducing operational and development costs.
- Created and advised company best practices around SDLC on public cloud.
- Involved in leadership of the Software Engineering Community of Practice, responsible for presenting on or arranging presenters for various topics of interest.
- Established SDLC and Standard Operating Procedures on a major company project leading its operational deployment efforts.
- Lead efforts surrounding the security of, and migration to AWS and utilization of Kubernetes.
- Networked with and learned from senior enterprise architects, assisted in the design of future graph-based data solutions.

CAS, Columbus, OH

2018-2019

Software Engineer

Working primarily as a Java Application developer debugging complex problems, providing both support and current engineering solutions.

Key Contributions:

- Designed improvements to document workflow, leveraging cutting-edge machine learning algorithms.
- Exponentially decreased the monthly average of manual document unlock requests with automation logic, amounting to hundreds of man-hours saved.

MICRO CENTER, Hilliard, OH

2016-2018

Web Development

EDUCATION & TRAINING

Master of Science in Computer Science, Architecture – 3.9 GPA (Ongoing)

Franklin University, Columbus, OH

Bachelor of Science in Computer Science – Magna Cum Laude

Franklin University, Columbus, OH

Clubs: Franklin University Technologists Club (Co-Founder), ACM (Member)

Technologies: NoSQL, MySQL, Spark, Flink, Rust, Scala, Java, Python, Angular, DataDog, XRay, XML, CSS, Office, Outlook, Teams, Slack, Grafana, Kafka, Prometheus, MaaS, Docker, Kubernetes, AWS, Automation, IAC