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| Ryan Low | [rylow88@gmail.com](mailto:rylow88@gmail.com) | (610) 608-4088  [linkedin.com/in/ryanwlow](https://www.linkedin.com/in/ryanwlow) | [github.com/RyanLow](https://github.com/RyanLow) | [ryanlow.me](https://ryanlow.me/) |

# Experience

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| **Capital One****Senior Associate Software Engineer, Card Tech DevOps** | **Mar 2024 – Present**  McLean, VA |
| * **Engineered a novel deployment solution enabling cross-dependent AWS CloudFormation stacks to deploy sequentially or in parallel via Jenkins CI/CD, reducing production release time by ~35% (200 minutes) for a business-critical Card platform. Independently delivered feature in half the scheduled timeline.** * **Won the CIO TechX Award Q3 2024 for demonstrating significant achievement towards enterprise DevOps imperatives.** * **Launched an internal React site and ETL process to search for infrastructure-as-code patterns used throughout the enterprise, serving 400+ engineers with a reported development time savings in building architectures of ~1 hour per visit.** * **Led project to create conversion documentation for year-long migration to new IaC pipeline, saving 1,000+ developer hours across Card Tech. Created prototypes to automate application migration.** * **Developed fully automated regression tests in Go for a major pipeline component, doubling team productivity by preventing breaking changes from impacting users and freeing team capacity.** * Contributed capabilities and fixes to innersource projects to unblock Card Tech teams onboarding onto IaC pipeline. | |
| **Capital One****Associate Software Engineer, Data Science Feature Platform** | **Feb 2023 – Feb 2024**  McLean, VA |
| * Designed a stateless multi-region Lambda API in Python to enforce platform-wide governance policies across services handling 40,000+ machine learning features in QA and production, centralizing and streamlining future policy changes. * **Enhanced the core Feature Platform Python Notebook SDK to support localized data compliance checks for power users.** * **Conducted cross-team end-to-end integration tests to validate that the feature lifecycle met business needs and SLAs.** | |
| **Capital One****Software Engineering Intern, Data Science Feature Platform** | **Jun – Aug 2022**  McLean, VA |
| * **Built proof-of-concept workflow to collect and display data drift metrics of ML feature datasets, improving data drift visibility for data scientists and analysts training ML models. Handed off for adoption and piloting post-internship.** * Configured an Argo Events sensor to trigger workflows that store data in AWS OpenSearch, and developed a Lambda API proxy and React frontend to visualize results in dynamic charts. | |
| **Suvoda****Software Engineering Intern, Innovation Research** | **Jun – Aug 2021**  Conshohocken, PA |
| * **Researched ML opportunities (e.g., time series regression, document data extraction) in Suvoda’s clinical trial logistics platform, and evaluated Microsoft SQL Server data quality to determine feasibility.** * **Presented findings and recommendations to Product Development senior leadership.** | |

# Education

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| **University of Maryland, College Park**Master of Science, Computer Science | **2021 ­– 2022**  GPA 4.0 |
| Research: *Vision Transformer for Image Clustering* | |
| **University of Maryland, College Park**Bachelor of Science, Computer Science and Mathematics | **2018 ­– 2021**  GPA 3.94, Cum Laude |
| Selected Coursework: Machine Learning, Data Science, Software Engineering, Data Structures, Algorithms, OOP, DBMS, Computer Vision, Multivariable Calculus, Linear Algebra, Statistics | |

# Skills

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| Certifications: AWS Certified Solutions Architect – Associate  Programming Languages: Python, Go, Java, TypeScript, JavaScript, Groovy, C, C++, C#, OCaml, R, SQL, MATLAB, HTML  Cloud and DevOps: AWS, AWS CloudFormation and CDK, Docker, Kubernetes, Jenkins  Data and ML: Jupyter, PyTorch, TensorFlow, Snowflake, Splunk  Frameworks and Tools: React, Node, Git, GitHub Copilot  *“Able to work through ambiguous problems beyond expectation.”* – Manager Performance Review |