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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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| **Senior Associate Software Engineer, Card Tech DevOps** — **Capital One**, McLean, VA  * **Delivered feature to deploy AWS resource stacks in parallel, reducing time by ~35% or 200 minutes per release; completed in half the expected time. Won TechX CIO Award Q3 2024.** * **Led production of conversion documentation to save an estimated 1,000+ man-hours across hundreds of Card Tech teams in year-long migration to new infrastructure-as-code pipeline.** * **Created regression tests for major pipeline component that improved the resilience against breaking changes impacting users, doubling the team productivity.** | Mar 2024 – Present |
| **Associate Software Engineer, Data Science Feature Platform** — **Capital One**, McLean, VA  * Designed and implemented a stateless Lambda API to enforce platform-wide governance policies for multiple components serving 40,000+ user-created machine learning data “features”, centralizing and streamlining future policy changes. * **Conducted cross-team end-to-end integration testing to validate that the full feature lifecycle supported business needs and met SLAs.** * **Enhanced Python SDK to localize compliance checks that ensure data compliance of Feature Platform power users.** | Feb 2023 – Feb 2024 |
| **Software Engineering Intern, Data Science Feature Platform** — **Capital One**, McLean, VA  * Developed proof-of-concept of new workflow to collect and show information about feature datasets to improve data scientists’ visibility of data drift in their machine learning models. * **Utilized AWS to configure OpenSearch data storage and Lambda API proxy for retrieving data drift results. Created a React.js webpage that calls the API and produces charts with the results.** | Jun – Aug 2022 |
| **Software Engineering Intern, Innovation Research** — **Suvoda**, Conshohocken, PA  * Researched areas for future innovation in Suvoda’s clinical trial platform and proposed several machine learning approaches (e.g., time series regression), libraries and tools for solutions. * Analyzed quality of data in Microsoft SQL Server to determine its strengths and pitfalls for using it in the proposed machine learning approaches. * Presented findings and recommendations to senior management of Product Development. | Jun – Aug 2021 |

# Education

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

# Skills

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| Certifications: AWS Certified Solutions Architect - Associate  Languages: Python, Golang, Java, Groovy, JavaScript, C, C++, C#, OCaml, R, SQL, MATLAB, HTML, CSS  Libraries and tools: AWS, AWS CloudFormation and CDK, Docker, Snowflake, Splunk, Jenkins, PyTorch, TensorFlow, React.js, Node.js, Kubernetes, Git, GitHub  Manager evaluation: Able to work through ambiguous problems beyond expectation |