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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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| **Associate Software Engineer, Card Tech** — **Capital One**, McLean, VA  * **Delivered parallelization feature that saved on average roughly 200 minutes per pipeline run; completed in half the expected time. Recognized by CIO as TechX Award winner Q3 2024.** * **Spearheaded documentation effort to save approximately 1,500+ man-hours across hundreds of Card Tech teams in year-long migration to new pipeline.** * **Led creation of regression tests for pipeline component, providing additional resilience against breaking changes impacting users while reducing test duration from 40 minutes to 5 minutes.** | Mar 2024 – Present |
| **Associate Software Engineer, Feature Platform** — **Capital One**, McLean, VA  * Designed and developed an API to enforce platform-wide governance policies of 40,000+ user-created machine learning features, centralizing and streamlining policy changes. * **Conducted end-to-end integration testing to ensure the full feature lifecycle supported business needs and met SLAs.** * **Enhanced Python SDK to enforce proper data compliance of Feature Platform power users.** | Feb 2023 – Feb 2024 |
| **Software Engineering Intern** — **Capital One**, McLean, VA  * Developed a proof-of-concept workflow that collects and displays information about feature datasets to give data scientists greater insight and confidence in detecting data drift within their machine learning models. * **Utilized AWS to host data storage and a proxy API for retrieving data drift results. Created a React.js webpage which calls the API and produces charts containing the feature dataset information for data scientists.** | Jun – Aug 2022 |
| **Software Engineering Intern** — **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 data stored in Microsoft SQL Server databases qualitatively and with SQL queries to report on strengths and pitfalls for use in proposed machine learning approaches. * Presented research findings 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 IaC, Git, GitHub, Docker, Snowflake, Splunk, Jenkins, PyTorch, TensorFlow, React.js, Node.js, Kubernetes |