Mark Henszey Wolgin

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Education

- **The University of Chicago** — Chicago, Illinois
  M.S. in Computer Science — *Jun. 2025 – Dec. 2026 (Expected)*
  Coursework: High Performance Computing, Advanced Computer Architecture, Advanced C++, Compilers

- **The University of Delaware** — Newark, Delaware
  Honors B.S. in Computer Science — *Aug. 2017 – Jun. 2021*
  Relevant Coursework: Machine Organization, Compiler Construction, ML/AI

Professional Experience

- **JPMorgan Chase & Co.** — Wilmington, Delaware
  Associate Engineer — *Jun. 2021 – Sep. 2025*
  - Led re-implementation of Encompass Ingress services by migrating applications from Spring Framework to core Java, rewriting core logic to improve performance and maintainability
  - Developed and distributed a shared library of utilities and data models, significantly improving application resiliency and consistency across services
  - Supported a critical mortgage platform used by every Chase underwriter, enabling reliable data flow to downstream applications
  - Standardized logging across services, enabling automated validation and improved observability through log-based feature verification
  - Acted as a quality gatekeeper for external contributions, maintaining consistency and reliability across shared repositories

- *SEP Engineer*
  - Contributed to AIQ, a suite of 30+ Java Spring microservices, and helped drive migration from private cloud to AWS, advancing public cloud adoption in Home Lending
  - Built highly fault-tolerant systems processing thousands of mortgages, valued in the millions, daily, ensuring zero downtime and no transaction loss even during full regional outages
  - Designed and implemented AIQ Decision Service, a core rules engine to execute complex business logic derived from cross-functional collaboration; solution submitted for patent review (pending)

- **Lakehouse Systems** — West Chester, Pennsylvania
  Software & Systems Contractor — *Nov. 2023 – Present*
  - Managed production infrastructure, including applying security patches, performing application deployments, maintaining DNS records, and rotating SSL certificates to ensure system stability and security
  - Built and implemented CI/CD pipelines using Azure DevOps, eliminating manual deployment processes and reducing the need for direct production access
  - Containerized application codebase using Docker, enabling improved scalability, resource utilization, and cost optimization across environments

Personal and Professional Achievements

- **U.S. Patent Application** — Wilmington, Delaware
  Joint Inventor – US-20250037061-A1 — *2023 - Pending*

- **General Honors Award** — Newark, Delaware
  University of Delaware – Honors College — *May. 2019*

- **Community Contributor** — Christchurch, New Zealand
  Computer Science Field Guide – 18.3.1 Big Data — *Dec. 2019*

- **Eagle Scout** — Berwyn, Pennsylvania
  Boy Scouts of America – Troop Devon 50 — *19 May. 2016*