

Jack Ashmore

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EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science

Atlanta, GA

Expected May 2027

Virginia Polytechnic Institute and State University

Bachelor of Science in Computer Science, Minors in Cybersecurity, Spanish

Blacksburg, VA

Aug. 2020 – May 2024

EXPERIENCE

Advanced PD & Tech Engineer - Ford College Graduate Program

Ford Motor Company

Jul. 2024 – Present

Dearborn, MI

ADAS DevOps Engineer

Jul. 2025 – Present

- Develop an automated release tool using Python, FastAPI, and Node.js to streamline the vehicle software integration lifecycle, significantly reducing manual coordination across 5+ internal teams
- Foster alignment across a 15-person engineering team by leading weekly CI/CD technical design reviews, creating a forum for feedback, collaborative decision-making, and knowledge sharing
- Build a system to detect individually granted permissions in key IAM groups by querying directory services and comparing membership against expected access lists, enabling faster remediation of unauthorized admin privileges

ADAS Software Engineer

Jan. 2025 – Jul. 2025

- Automated data loading processes for the Ford low-speed autonomy platform's perception evaluation pipeline, reducing manual data handling by developing a Python API interface for extracting and indexing 12 critical sensors' data
- Conducted performance evaluations on low-speed autonomy platform perception features, improving reliability by analyzing thousands of datasets, identifying error cases, and visualizing key metrics
- Designed and implemented a BigQuery-backed metrics infrastructure for an in-house ML model, including database entity graphs, pipeline integration for automatic metric population, and Apache Superset dashboard integrations for cross-functional visibility

EV Auxiliary Controls Software Engineer

Jul. 2024 – Jan. 2025

- Delivered charge-state management controls for high-voltage battery systems by collaborating with hardware and systems teams to refine requirements and resolve defects, enabling successful integration with in-vehicle software modules
- Accelerated software development by delivering 7 key features ahead of schedule, allowing a shift in focus to subsequent quarterly objectives and advancing project timelines by up to 3 months
- Refined software requirements and addressed edge cases in collaboration with software and systems engineers, ensuring smoother implementation and reducing defects

Connected Vehicle Software Intern

Ford Motor Company

May 2023 – Aug. 2023

Dearborn, MI

- Developed ASIL-C rated software for next-generation electric vehicles, achieving nearly 100% unit testing coverage using test-driven development with gcovr and Ceedling
- Worked cross-functionally within a scrum team to define, draft, and create software and technical safety requirements, leading to robust software design and successful vehicle platform integration
- Managed the end-to-end lifecycle of a software component, from initial safety requirement drafting to integration, enhancing compliance with ISO 26262 standards and supporting a streamlined development process

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL (BigQuery), MATLAB, C#, JavaScript, TypeScript, HTML/CSS

Frameworks: Pytest, JUnit, Ceedling, Unity, CMock, React, Node.js, Flask

Developer Tools/Platforms: Git, Docker, Codespaces, Bazel, MagicDraw, Jama, gcovr, GCP, Apache Superset

Libraries: FastAPI, NumPy, Matplotlib