

Michael H. Wheatman

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Summary

A software engineer specializing in defense minded applications and systems. I possess a rigorous academic background, systems architecture experience, and strong communication skills. I am an engineer and researcher with a specialization on robust scalable distributed systems.

Experience

Principal Software Engineer – Advanced Undersea Systems (PMS 394) – NAVSEA - US Navy 2021 – Present

- Drives technical strategies for large-scale projects and infrastructure while coordinating efforts among multiple teams of engineers to support mission success. Utilizes Top Secret/SCI Clearance.

Research and Development Engineer 3 – The Applied Research Laboratory at Penn State 2019 – Present

- Carry out underwater autonomy research for US Navy undersea and surface drones.
- Unmanned Maritime Autonomy Architecture (UMAA) Reference Implementation Lead Software Engineer
 - Developed a novel extendable maritime vehicle control system. Manage technical design, implementation, review, and maintenance of the software system. Develop and Oversee DevSecOps pipeline to ensure system stability and maintainability.
 - Lead field test validation of the system to ensure requirements are met. Coordinate risk mitigation to ensure equipment and personnel are safe. Coordinate team members' effort by managing the work queue using the Kanban methodology, considering current requirements and customer need. Ensure that all items are documented, triaged, worked, tested, and resolved.
- UMAA Specification Working Group Team Lead
 - Lead development effort to design the Unmanned Maritime Autonomy Architecture (UMAA) standard specification for maritime vehicle control and management.
 - Coordinate organization and control of UMAA ICD and IDL documents.

Software Engineer II – Raytheon Corp. 2015 - 2019

- Developed high performance distributed systems to streamline the ordering, ingest, processing, and distribution of imagery data. Maintained Top Secret/SCI Clearance.
- Deputy Team Lead, YESNET East Region Director of Communications

Software Development Engineer Intern – Amazon AWS 2014

- Worked in AWS Identity and Access Management building an internal registry designed to centralize and organize the metadata and development information for all AWS services and APIs.

Computing Support Assistant – Carleton College ITS 2011 - 2015

- Worked to provide technical support to students, faculty, and staff of the College.

Education

Pennsylvania State University – Computer Science (MS) 2016 - 2021

- Thesis: Standard Interfaces for Unmanned Autonomous Systems.

Carleton College – Computer Science (BA), Cognitive Science (minor) 2011 - 2015

- Served on Library and Information Technology College Governance Committee
- Thesis: Augmented Reality on Mobile Systems.

Skills

Cloud Computing Technologies, Full Stack Java Development, Agile Software Development, Python Development, Computer Security, Linear Regression Techniques, Distributed Systems Design and Development, Artificial Intelligence, Machine Learning, SQL and NoSQL Database Systems, Unmanned Control Systems, Vehicle Autonomy.