Hannah DeFazio

✉ h2defazio@gmail.com | ☎ 315.944.7319 | 🔗 hannah-defazio | ⬡ hdefazio

PROFESSIONAL EXPERIENCE

RESEARCH AND DEVELOPMENT ENGINEER | Kitware Inc.
May 2020 - present | Carrboro, NC

- Head programmer and scrum master on the DARPA PTG Kitware team
- Contributes to Kitware's open-source platforms (KWIVER, SMQTK, Girder) on the Computer Vision team
  - Kitware Image and Video Exploitation and Retrieval (KWIVER)
  - Social Multimedia Query ToolKit (SMQTK)
- Leads the training and development of machine learning models for our multi-task monitoring system
- Handles machine learning experiments; Presents and documents results for evaluation with the team
- Containerizes and integrates disinformation analytics into APIs for evaluation on the DARPA SemaFor project

SECURITY ENGINEERING INTERN | General Electric Power
May 2019 - August 2019 | Schenectady, NY

- Implemented a testing framework with Django and Selenium to enable the team to reach comprehensive test coverage
- Researched and wrote comprehensive documentation on different SAST tools for Python projects

RESEARCH AND DEVELOPMENT INTERN | Kitware Inc.
January 2019 – May 2019 | Clifton Park, NY

- Translated Jetson's pedestrian detector and a FlyCapture image reader into C++/CMake KWIVER projects for Sprokit pipeline execution
  - Stream Processing Toolkit (Sprokit)
- Created a face detector based on KWIVER with C++ and Python examples
- Developed Dockerfiles and Python scripts to setup Intel's OpenVino and Jetson's inference demos for performance analysis

RESEARCH

TARS, TERASCALE ALL-SENSING RESEARCH STUDIO
October 2017 – May 2022 | Clarkson University

- Developed tools to allow the allocation of nodes in a drone cluster to be determined by hardware quality and additional resources such as cameras [M.S. Thesis]
- Led a multidisciplinary 7 person team on creating the hardware and software architecture of an assistive robot prototype [Honors Thesis]
- Performed system integration to demonstrate that the prototype robotic arm could be controlled based on whether a person was predicted to need assistance

LEADERSHIP

SCRUM MASTER | Kitware Inc
May 2023 - present | Carrboro, NC

- Leads scrum ceremonies, ensuring adherence to agile principles and facilitating an environment of trust within the team
- Adapts to evolving project needs while maintaining a focus on meeting project goals and balancing concurrent projects' timelines

INTERN TEAM LEADER | Kitware Inc
Summer 2023 | Carrboro, NC

- Onboarded and mentored interns on the code review process, good software practices, and creating a positive culture at Kitware

EDUCATION

CLARKSON UNIVERSITY

M.S. Computer Science
May 2022 | Potsdam, NY

- Summa cum laude

B.S. Computer Science Minor in Mathematics
May 2020 | Potsdam, NY

- Honors Program
- Magna cum laude
- Presidential Scholar (Fall '19, Spring '18, '20)
- Dean's List (Fall '17, '18)

SKILLS

PROGRAMMING
Python | C++ | Docker | CMake

TECHNICAL EXPERIENCE
Software Engineering
Software Development
Agile Development

SOFTWARE EXPERIENCE
SLURM | Git | KWIVER | Overleaf/LaTeX | UNIX/Linux

HONORS

National Grid Stipend for Research Opportunities in Sustainable Energy

Honorable Mention Poster Presentation in Computer Science and Engineering at Research and Project Showcase (RAPS)

ADDITIONAL LEADERSHIP

TARS Research Team Leader
Resident Advisor
GE Intern Social Ambassador
Teaching Assistant for Pre-Calc
Honors Webmaster
Honors Recruiter & Peer Mentor
Society of Women Engineers