Al Miller III

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ABOUT	Software engineer passionate about the intersection of sustainability, philosophy, and technology. Skilled in full stack development and distributed systems. Based in Portland, OR.

PROFICIENCIES

React (Redux, Apollo GraphQL). Vue.js. TypeScript. Electron.
Python (FastAPI, OpenCV, sklearn). GIS (PostGIS, Postgres, OpenLayers, ArcGIS).
AWS. GCP. Docker. Git. iOS (Swift). Figma. Agile. Español (intermediate).

EDUCATION

University of Connecticut, Storrs, CT   2014 – 2018
B.S. in Mechanical Engineering, Minor in Philosophy, 3.6 GPA
Philosophy Club Cofounder, Resident Assistant, Engineers Without Borders,
New England Scholar, State Congressional Certificate of Merit.

EXPERIENCE

FireFly Automatix, Inc., Salt Lake City, UT (Remote)   2021 – present
Software Engineer
Growing an autonomous vehicle and data management platform for agriculture, currently implementing and developing APIs for an end-user autonomous fleet management application (Vue.js, PostGIS, Electron). Rapidly earned the trust of a cross-functional team (developers, roboticists, agriculturalists) through active collaboration, ownership, and by emphasizing code composition and consistency.

MPR Associates, Inc., Washington, D.C.   2018 – 2021
Software Engineer

· Developed a geospatial utility asset management platform for prioritization of equipment maintenance in consideration of wildfire risk and prevention (React, OpenLayers, AWS).
· Lead iOS engineer (Swift) of a novel patient care technology for the Mayo Clinic. Designed UI in Figma and performed UX studies. Wrote bespoke image processing and computer vision algorithms (OpenCV) for automatic image capture using fiducial markings.
· Applied multi-label natural language classifiers (sklearn, NLTK) on plant operational databases and developed visualizations to provide equipment failure trend insights to EPRI.
· Fostered relationships with DOE leadership through execution and effective communication of integrated statistical schedule risk analyses (Monte Carlo, Python) for the largest environmental remediation effort in the U.S. (Hanford Superfund Site).

Spring Valley Student Farm, Storrs, CT   2017 – 2018
Farmer
Worked and lived on an organic farm, learning from and growing a nature-conscious community through education and outreach. Codesigned and built a 1,000-gallon aquaponic system.

Engineers Without Borders, Storrs, CT   2015 – 2018
Volunteer
Supported development of a freshwater irrigation system to provide potable water to remote communities in Ethiopia's Amhara region. Led design discussions with an international team.

United Technologies, West Hartford, CT   2017 – 2018
Thesis (Computational fluid dynamics)

Nguyen Research Group, Storrs, CT   2015 – 2017
Researcher (Piezoelectric sensor signal processing) | https://nguyenresearchgroup.com

INTERESTS

Naturalism (hiked entireties of the Appalachian and Pacific Crest Trails). Music (classical pianist).