
Education

University of Maryland, College Park

Bachelor's of Science in Physical Sciences

2012 — 2016

Concentrations: Atmospheric and Oceanic Science, Chemistry, and Geology

Experience

Visionist, Inc.

Engineer 2

August 2018 — present

- ▷ Helped scale a suite of applications for real-time geographic data analysis up from prototype to production, focusing on performance and reliability. Improved communication between the development team and our user base to implement a faster and more robust feedback loop.
- ▷ Built and maintained a richly interactive web form for fine-grained control of analytic rules using ReactJS. Incorporated usability recommendations from our UX specialists, feature requests from our users, and requirements from our contract in each iteration of the design.
- ▷ Paid down technical debt, improved test coverage, and wrote documentation for backend Go code that had not been touched in years. Ensured that corner cases were addressed and that extensible solutions were adopted where possible.
- ▷ Planned, contributed development time, and reviewed PRs for our UI core library, a developer-organized effort to manage complexity in our applications.

Nu-Tek Precision Optical Corporation

Engineer 1

May 2016 — August 2018

- ▷ Developed and maintained a proprietary MATLAB toolbox for processing optical data.
- ▷ Automated administrative tasks with Python and PowerShell scripts.
- ▷ Created analytical and automation tools for manufacturing and metrology using Rust and C++.
- ▷ Compiled, designed, and typeset product certifications with \LaTeX .

The Research Foundation for SUNY

Innovation and Partnerships Intern

Summer 2014 and 2015

- ▷ Assisted in implementing the START-UP New York and Technology Accelerator Fund programs.
 - ▷ Reviewed grant proposals to assess the feasibility and potential marketability of new technologies.
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Technical Skills

Languages & Frameworks: JavaScript / TypeScript, React, Rust, Go, Racket, MATLAB, \LaTeX

Tools: Docker, Kubernetes, build tooling (e.g. linters, CI, Makefiles, package vendoring and publishing)
