George Kaplan

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Education

University of Maryland, College Park

Bachelor's of Science in Physical Sciences 2012 — 2016

- College Park Scholars: Science, Technology and Society
- Concentrations in Atmospheric and Oceanic Science, Chemistry, and Geology

Experience

Visionist, Inc.

Engineer 2 2018 — present

- Helped build and scale a suite of applications for real-time streaming SIGINT data analysis, utilizing industry best practices: microservice architecture, Kubernetes, unclassified-first development, modern frontend implementation with React.JS
- Contributed to a voluntary, self-organized initiative to build and maintain shared libraries for internal use
- Modernized an R&D project after several years of disuse, implementing new features and improving accessibility to new developers

Nu-Tek Precision Optical Corporation

Engineer 1 2016 — 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.
- Designed and optimized automated measurement programs using Zeiss CALYPSO.

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.
- Edited, compiled, and summarized legal documents for public distribution.
- Modelled the performance of a proposed venture capital fund using past financial data.

Technical Skills

- JavaScript (ES6), Rust, Racket/Scheme, Go, Bash, MATLAB, LaTeX, Python, Scala, C/C++
- Docker, Kubernetes, build tooling (e.g. Webpack, ESLint, package vendoring)
- FreeCAD, Zeiss CALYPSO, ZYGO MetroPro/Mx