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

▷ Specialized coursework: Computing and Data Analysis, Applied Probability and Statistics, Radiochemistry, Structure Determination Using Spectroscopic Methods, Inorganic Chemistry, Geophysics, Observational Geophysics, Atmospheric Physics and Thermodynamics, Dynamics of the Atmosphere and Ocean

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Experience

Nu-Tek Precision Optical Corporation

Engineer 2016 — present

▷ 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 C, Rust and Golang.

▷ Compiled, designed, and typeset product certifications with LaTeX.

▷ Implemented organization-wide code style standards and version control with Git.

▷ Created frontend web tools for monitoring orders and planning tasks.

▷ Tracked order progress and maintained detailed task records in Wrike (project management tool).

▷ 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.

University of Maryland, College Park

Teaching Assistant 2014 — 2015

▷ Developed lesson plans and managed course logistics.

▷ Evaluated student performance and progress through weekly reflective writing assignments.

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Technical Skills

▷ MATLAB, Python 3, PowerShell, Golang, Rust, C/C++, Git, Bash, ES6, LaTeX, Vim

▷ FreeCAD, Autodesk Inventor, Creo Parametric/Pro Engineer, Zeiss CALYPSO, ZYGO MetroPro/Mx

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