

Daniel Westphal

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Education

DARTMOUTH COLLEGE, Hanover, NH

June 2023

B.A. Physics & Computer Science Modified with Human Centered Design

GPA: 3.97 /4.00

Notable Coursework: Object-Oriented Programming (Java), Software Design & Implementation (C), Rendering Algorithms (C++), Algorithms, Design Thinking, UI/UX Design

Activities: Sexual Assault Peer Alliance (Outreach Chair), Mental Health Union (Peer Support Volunteer), Teaching Assistant (Intro. to Statistics), First Year Trips Volunteer (Trip Leader Trainer, Directorate Member, Support Crew), Sigma Nu Fraternity (Academic Chair, Judicial Chair), Management & Leadership Development Program

Honors: Phi Beta Kappa Sophomore Prize, James O. Freedman Presidential Scholar (\$2,000), Stamps Scholar (\$20,000), Rufus Choate Scholar, Sophomore Research Scholar (\$3,000), Kaminsky Undergraduate Research Grant (\$4,000), Albert Dickerson 1930 Freshman Writing Prize (\$250), Citations for Meritorious Performance in 5 classes

Work Experience

AMAZON, Seattle, WA

June 2022 - August 2022

Software Development Engineer Intern

- Developed a full stack web app to facilitate process of creating shopping page templates for Amazon Fashion
- Decreased time spent making a shopping page template from four days to twenty minutes
- Coded front-end using React JS, Typescript, HTML, and CSS; implemented back-end storage REST API using AWS Cloud Development Kit (CDK), Lambda, API Gateway, and DynamoDB in Typescript and Python with pipelines

TAMR, INC, Cambridge, MA

March 2021 - June 2021

Software Engineer Intern

- Created Python package to standardize country names into country codes with >99% accuracy for data cleaning
- Developed and deployed an enricher to standardize company names with >90% that is being sold to a major US bank
- Used PySpark to build a spreadsheet of all British companies and their ultimate parent companies using 10+ GB of data

LOCKHEED MARTIN SIKORSKY, Stratford, CT

July 2018- August 2018

Information Technologies (IT) Intern

- Updated and created company-wide websites currently used by all employees and restructured online filing system
- Transferred operating metric documents from Sikorsky's previous owner to current owner using SharePoint

Research Experience

THE EMPOWER LAB, Hanover, NH

June 2022 - Present

Researcher for Professor Elizabeth Murnane

- Writing a senior honors thesis in human computer interaction on designing interfaces to help people gain social support for managing mental health while not requiring disclosure of condition

DARTMOUTH DEPT. OF PHYSICS, Hanover, NH

October 2019 - June 2022

Research Assistant for Professor Chandrasekhar Ramanathan

- Optimizing way of enhancing magnetic resonance signals of diamond particles using dynamic nuclear polarization

Researcher for Professor Robyn Millan

- Built model Relativistic Electron Atmospheric Loss (REAL) CubeSat for vibrational testing to prep for launch
- Used C and Python to analyze stratospheric balloon data in conjunction with magnetically conjugate data from satellites to study electromagnetic waves in space plasmas as well as precipitation from Earth's radiation belts
- Studied special/temporal extent of rapid microburst events using stratospheric balloon and CubeSat data
- Presented at Wilder Laboratory Undergraduate Research Symposium

Skills & Interests

Programming: Python, Java, C, Processing (Java based), Typescript/JavaScript, React JS, HTML, CSS

Tools: AWS (Cloud Development Kit, Lambda, API Gateway, DynamoDB), Figma, Git, Microsoft Office, Google Suite

Other: Spanish (basic proficiency), Research, UI/UX Design, Technical Writing, Public Speaking

Interests: Baking, Traveling, Theater, Museums, Tennis, Chess