

# Brandon Keplinger

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## Education:

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University of Maryland, College Park, MD	Expected Graduation Date: May 2021
B.S. in Computer Science	Major GPA: 3.20
B.A. in Chinese	
Hagerstown Community College, Hagerstown, MD	Graduation Date: May 2017
A.S. in Engineering Sciences with Honors	GPA: 3.00

## Relevant Coursework:

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**Computer Science:** Object Oriented Program I & II, Introduction to Computer Systems, Discrete Structures, Organization of Programming Languages, Algorithms, Computer Networks, Computer and Network Security, Introduction to Data Science, Introduction to Artificial Intelligence, Introduction to Machine Learning, Introduction to Human-Computer Interaction, Data Structures

## Work Experience:

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Advanced Simulation Technology Incorporated, Herndon, VA	June 2020-August 2020
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*Software Development Intern*

- Make changes to existing applications to match features requested by customers and internal design.
- Develop changes within existing codebases using git and forge between several large repositories.
- Work across multiple systems (MAC, Windows, Linux) to develop solutions to issues

HSIS Lab, College Park, MD	June 2019-Present
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*Undergraduate Research Assistant and Data Analyst*

- Develop Python and MATLAB algorithms to record and compress data collected from videos.
- Use GetReal3D in conjunction with DTrack and TrackD to provide functionality within Unity simulations.

Adele H. Stamp Student Union, College Park, MD	August 2019-Present
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*IT Specialist*

- Use C# and ASP.Net to develop a web application to centralize information for student technicians.
- Set up audio and visual services for large events and supervise tickets for installations and repairs.
- Provide excellent service working at the IT Help Desk which assists 17,000 people daily.
- Support clients via advanced troubleshooting such as computer/network performance issues.

## Projects:

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Color-Based Motion Capture

*Research Project*

- Created a MATLAB program which takes videos recorded from multiple angles of lab trials, tracks LEDs placed on the participants, and outputs their position in 3D space for use in other programs.

## Skills:

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### Technical Skills:

Advanced: Python, C#, SQL, HTML/CSS, MATLAB, C, Linux, ASP.Net, Git

Intermediate: C++, Rust, Ocaml, Unity, Ruby, JavaScript, Java, GoLang, MIPS Assembly

**Spoken Languages:** Chinese (Intermediate written and oral)