

Dylan Herbig

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EDUCATION

University of Virginia – College of Arts and Science

Charlottesville, VA USA

Bachelor of Arts in Computer Science and Economics – GPA: 3.8

August 2020 – May 2024

- **Honors:** Honors Program – Echols Scholar
- **Relevant Coursework:** Program and Data Representation, Algorithms, Software Engineering, Discrete Mathematics, Macroeconomics, Introduction to Statistical Analysis
- **Organizations:** Development Team for theCourseForum, HooHacks Tech Committee, Website designer for Student Covid Coalition, Executive Board German Honor Society, Madison House Volunteering, Students Demand Action

SKILLS

- **Programming Languages:** Java, Python, C++, HTML & CSS, TypeScript, PHP, Assembly
- **Operating Systems:** Linux, MacOS, Windows, Unix
- **Other:** Django, Docker, AWS, Git, WordPress, Microsoft Office, Apache, Node.js, Java Springboot, Pandas, NumPy
- **Languages:** English (Fluent), German (Fluent), Spanish (Advanced), French (Advanced), Japanese (Elementary)

WORK EXPERIENCE

Dependable Systems and Analytics Lab, UVA

Charlottesville, VA USA

Undergraduate Research Assistant

September 2021 – Today

- Assisted Prof. Reidenbach on his coral reproduction research, attempting to understand the different effects on reproductive behavior due to topography, fluid dynamics, and lighting to then be able to create suitable environments for coral repopulation
- Utilize ANSYS and CFX fluid solver to create computational models of fluid dynamics
- Future plans to utilize machine learning to predict how environmental changes affect the growth of coral larvae

Department of Computer Science, UVA

Charlottesville, VA USA

Teaching Assistant – Data Structures and Algorithms 1 (CS 2100)

August 2021 – Today

- Collaborated with other Teaching Assistants to create automated grading solutions for professors using PHP with Apache.
- Located defects in un-authored student code and explained to them the reason for their bugs.
- Lead weekly labs and assisted multiple undergraduate students.

Student Web Designer

Remote

Freelancer

October 2020 – Today

- Designed and created user-friendly WordPress websites for medical equipment start-up, business club, personal-business coach, and financial solutions advisor.
- Implemented E-commerce shop generating over \$100,000 in net profit multiple months a year.
- Optimize preexisting WordPress Plug-Ins to fulfill client requirements using HTML, CSS, and PHP.
- Collaborated with executive boards of multiple companies to create tailored and efficient web design solutions.
- Used Google Analytics data to create Google AdWords campaigns to increase website traffic.

edataconsulting GmbH

Remote

Software Development Intern

May 2021 – Aug 2021

- Full stack development with two other software developers to optimize application and interview process for new candidates.
- Designed and programmed multiple REST API components assigned to various user roles using Java Springboot based on Maven framework hosted on AWS. Later implemented them into the frontend using Angular's TypeScript based web application framework.
- Authored, implemented, and maintained JUnit testing procedures for each component in application.
- Tested different user-case scenarios using legacy code on PostgreSQL database system.

Heidelberg iT GmbH

Heidelberg, Germany

Intern / Assistant Project Manager

January 2020 – December 2020

- Learned HTML & CSS through online resources to create company-wide encrypted E-Mail signatures.
- Employed as subcontractor for a US Army project to improve existing network engineering solutions.
- Collected and analyzed data from project and presented them in organized matter to colleagues.