

# WILLIAM HELMRATH

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## EDUCATION

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### University of Virginia

August 2018 – May 2022

Bachelor of Science

Major in Computer Science; Minor in Economics

Cumulative GPA: 3.78/4.0; Dean's List 2018-2020

Relevant Coursework: Advanced Software Development, Programming Languages for Web Applications, Algorithms

## EXPERIENCE

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### TD Securities | Software Engineering Intern

June 2021 – August 2021

- Independently develop proof-of-concept web app for a record dashboard that allows business analysts to view and manage their various workflows and tasks in progress through a table view and a BPMN diagram viewer
- Assist in the development of Terra, an internal workflow design tool, through the addition of a global datetime context that allows users to view past data by modifying outgoing API requests

### Forge | Engineering Team Director

August 2020 – Present

- Lead and coordinate three-person team in developing internal software solutions for Forge
- Develop and maintain React web app that expedites the onboarding process of Forge's Launch internship program by:
  - Providing an interactive template for students to create their Forge-branded resume,
  - Displaying those resumes to potential company partners as part of the sales process

### UVA Engineering Student Council | Programs Committee Chair

May 2020 – Present

- Oversee all administrative programs for the Council, bolstering community and inclusion in the Engineering community through events such as student-professor coffee chats and a student-taught classes showcase
- Supervise student-taught classes, ensuring that student instructors have the necessary tools to adapt to and excel in a new online teaching environment

### Forge | Web Development Course Instructor

August 2020 – May 2021

- Develop and re-design pre-existing curriculum in order to teach elements of full-stack web development over 12 weeks through weekly project-based learning, focusing on React
- Lead weekly lectures and labs, engaging students in creating apps and projects that develops skills in JavaScript, HTML, CSS and additional professional tools such as Git and external APIs

### Forge | Advanced Software Engineering Intern

June 2020 – August 2020

- Developed a working prototype for a restaurant internal delivery management website in a close-knit three-person team using ReactJS and a Firebase backend
- Worked closely with clients in weekly meetings in order to rapidly iterate product design and brainstorm new features

## SKILLS

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**Software Engineering:** React, TypeScript, Node, Express, Redux, Firebase, CSS, HTML, Java, C++, Python, MATLAB, Mathematica, Git/GitHub