

# DANIEL ZHAO

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## EDUCATION

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**University of Virginia**, School of Engineering and Applied Science Charlottesville, VA  
*Bachelor of Science in Computer Science with a Double Major in Statistics* August 2019 – May 2023

- Cumulative GPA: 3.93
- National Merit Scholar
- Relevant Coursework: *Algorithms, Advanced Software Development, Theory of Computation, Program and Data Representation, Software Development Methods*

## SKILLS

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- Coding Languages: Java, Python, C++, JavaScript, HTML/CSS
  - Tools/OS: Linux, Windows, Microsoft Office, Octave, MATLAB
  - Practices: OOP, Algorithms, Data Structures, Scrum Methodology

## WORK EXPERIENCE

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**Department of Computer Science, University of Virginia** Charlottesville, VA  
*Teacher's Assistant, Professor Nada Basit* January 2020 – Present

- Lead 4 separate cohorts with 5 members each to evaluate progress and initiate discussions weekly
- Guide 100+ peers in Java development during 10 laboratory sections each semester
- Provide feedback on code and navigate students through difficult concepts

*Teacher's Assistant, Professor Kevin Sullivan* January 2020 – May 2020

- Aided 50+ students through personal tutoring, as well as graded assignments and exams
- Collaborated with peers in running effective group teaching sessions to prepare students for upcoming exams and homework

**BranchOut Veritas Education** Falls Church, VA  
*STEM Counselor* June 2019 – June 2019

- Lead educational sessions, leading to recognition for work and a Congressional Recognition award
- Taught basic coding and physics concepts to 30+ underprivileged children over a 2-week span
- Conducted unique and engaging activities daily to promote STEM interest

**Freelance Tutor** Chantilly, VA  
*Mathematics and Physics Tutor* October 2018 – May 2019

- Tutored students on 13 chapters for BC Calculus and 10 chapters for AP Physics
- Assisted students to succeed in class as well as the AP tests, resulting in top marks in both

## PROJECTS

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**Study Partner Finder** August 2020 – Present

- Building a responsive web application that aims to facilitate study group formation and community building among peers at the University of Virginia
- Leading the development on schedule formation, community forum, and group generation algorithms
- Acting as DevOps manager in a 3-person scrum environment with responsibility over Heroku, Travis CI, and Postgres integration and management

**Market Sentiment Analysis** August 2020 – Present

- Produce and code python scripts using third-party APIs to scrape updated stock information
- Quantify and analyze market sentiment in online financial forums against market prices

**Notification Ping Bot** August 2020 – September 2020

- Constructed a bot using Discord API to notify users of upcoming community events in popular game
- Integrated JavaScript and JSON to allow dynamic processes and robust handling of exceptions

**Image Library User Interface** September 2019 – December 2019

- Created a photo viewer app based on object-oriented principles and Java swing framework
- Designed with a focus on responsiveness for users and efficiency in code