

# Joseph E. Kerrigan

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## Education

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**University of Virginia**, Charlottesville, VA Anticipated Graduation: May 2023

B.A., Computer Science and Intended B.A., Mathematics

*Honors:* Jefferson Scholar, Echols Scholar

4.0 GPA, Dean's List

**Providence Day School**, Charlotte, NC May 2019

Top 10% of class, 1580/1600 SAT, 36/36 ACT

## Experience

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**LEAD Technologies, Inc.**, Charlotte, NC July 2019 – August 2019

*Software Development Intern* April 2020 – July 2020

- Independently produced applications including an automatic document scanner for Windows, Android, and iOS using C# and Xamarin
- Designed and implemented a novel gradient descent algorithm to improve brightness and contrast on scanned documents

**theCourseForum**, Charlottesville, VA January 2021 – Present

*Software Developer*

- Worked at [theCourseForum.com](https://theCourseForum.com), a course review and scheduling site with over 41,000 users
- Coordinated with team and utilized CI/CD pipelines on collaboration platform GitHub
- Developed new features and fixed bugs using technologies like Django and PostgreSQL, deploying Python applications to cloud targets such as Heroku and Google App Engine

**UVA Mathematics Department**, Charlottesville, VA February 2021 – May 2021

*Undergraduate Grader*

- Graded homework assignments for over 50 students in MATH3100: *Introduction to Probability*
- Drafted emails rectifying student misconceptions and offering targeted assistance on problems

## Leadership Roles

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**UVa Club Running** December 2019 – Present

*Webmaster*

- Elected twice as webmaster of an athletic CIO with more than a hundred active members
- Maintained club site [virginia.clubrunning.org](https://virginia.clubrunning.org) and ListServ with 1,300 subscribers
- Engineered a dynamic registration web application for annual charity race and built ranked-choice voting software responsible for counting hundreds of votes

**PennApps XXI** September 2020

*Hackathon Contestant*

- Led a team of four students in virtual hackathon
- Built a crowdsourced music discovery platform using Python, Django, PostgreSQL and deployed on cloud provider Heroku

## Technical Skills

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- Programming/Scripting Languages:* Proficient in Python, C#, C/C++, Rust, Java, JavaScript/NodeJS, HTML/CSS, R; familiar with x86 assembly, LEAN, and Swift
  - Frameworks and tools:* Experienced with Django, Docker, Numpy, Git, Flask, Xamarin, Unity3D, ggplot, and shiny; familiar with React, Pandas, Matplotlib
  - Able to design, deploy, and maintain containerized web applications to cloud providers such as Heroku or standard Unix servers using CI/CD pipelines