

Joseph E. Kerrigan

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Education

University of Virginia , Charlottesville, VA	Anticipated Graduation: May 2023
B.A., Computer Science and Intended B.A., Mathematics <i>Honors</i> : 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

LEAD Technologies, Inc. , Charlotte, NC	July 2019 – August 2019
<i>Intern</i>	April 2020 – July 2020
<ul style="list-style-type: none">Independently produced applications including an automatic document scanner for Windows, Android, and iOS using C# and XamarinDesigned and implemented a novel gradient descent algorithm to improve brightness and contrast on scanned documents	

Open Source Contributions

<i>Volunteer Developer</i>
<ul style="list-style-type: none">Contributed code to an image-processing library with over 2,500,000 downloadsDeveloped own open-source projects including chatbots and command-line interfaces

Leadership Roles

UVa Club Running	December 2019 – Present
<i>Webmaster</i>	
<ul style="list-style-type: none">Elected twice as webmaster of an athletic CIO with more than a hundred active membersManaged and maintained club site virginia.clubrunning.org and club ListServ with over 1,300 subscribersEngineered 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
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<i>Hackathon Contestant</i>
<ul style="list-style-type: none">Led a team of four students in virtual hackathonBuilt a crowdsourced music discovery platform using Python, Django, PostgreSQL and deployed on cloud provider Heroku

PDS Writing Club	August 2018 – May 2019
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<i>Founder and President</i>
<ul style="list-style-type: none">Founded Providence Day's Writing Club, an informal discussion-based club focused on literature appreciation and workshopping members' nonacademic writingContributed own writing alongside members' work to school literature magazine Pendragon

Technical Skills

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