# 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

Honors: Jefferson Scholar, Echols Scholar

4.0 GPA. Dean's List

Providence Day School, Charlotte, NC

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

May 2019

## **Experience**

### **LEAD Technologies, Inc.,** Charlotte, NC

July 2019 – August 2019 April 2020 – July 2020

Intern

- 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

#### **Open Source Contributions**

Volunteer Developer

- Contributed code to an image-processing library with over 2,500,000 downloads
- Developed own open-source projects including chatbots and command-line interfaces

## **Leadership Roles**

### **UVa Club Running**

December 2019 – Present

Webmaster

- Elected twice as webmaster of an athletic CIO with more than a hundred active members
- Managed and maintained club site <u>virginia.clubrunning.org</u> and club ListServ with over 1,300 subscribers
- Engineered a dynamic registration web application for annual charity race and built rankedchoice 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

# **PDS Writing Club**

August 2018 – May 2019

Founder and President

- Founded Providence Day's Writing Club, an informal discussion-based club focused on literature appreciation and workshopping members' nonacademic writing
- Contributed 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