

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
4.0/4.0 GPA, Dean's List
- University of Oxford**, Oxford, United Kingdom Study abroad, Fall 2021
Visiting Student studying Computer Science at St. Anne's College, Fall 2021
- Providence Day School**, Charlotte, NC May 2019
Top 10% of class, 1580/1600 SAT, 36/36 ACT

Experience

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- United States Special Operations Command**, Tampa, FL June 2021 – August 2021
Civic Digital Fellow
- Participated in the Civic Digital Fellowship, a selective full-time summer internship program for students interested in the civic technology sector
 - Built *Aleph*, a cloud-native inference pipeline to support forward missions producing exploitable images
 - Trained and deployed variety of machine learning models to assist in workflow and automation gaps
 - Maintained active secret level security clearance
- 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
- theCourseForum**, Charlottesville, VA January 2021 – Present
Full-Stack Software Engineer
- Worked at theCourseForum.com, a course review and scheduling site with over 41,000 users
 - Coordinated with 20+ team members and utilized CI/CD pipelines on collaboration platform GitHub
- LEAD Technologies, Inc.**, Charlotte, NC April 2020 – July 2020
Software Development Intern July 2019 – August 2019
- Produced apps like an automatic document scanner for Android and iOS using C# and Xamarin
 - Designed and implemented a novel gradient descent algorithm to improve quality of scanned documents

Leadership Roles

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- UVA Club Running** December 2019 – Present
Webmaster
- Elected twice as webmaster of athletic organization with more than one hundred active members
 - Maintained club website virginia.clubrunning.org and mailing list with over 1,600 subscribers
 - Engineered a dynamic registration web application for annual charity race and built ranked-choice voting software responsible for counting hundreds of votes

Technical Skills

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- **Programming languages:** Proficient in Python, C#, C/C++, Rust, JavaScript, and more
 - **Frameworks/tools:** Experienced with Kubernetes, Docker, Django, Numpy, PyTorch, Git, and React
 - Experience deploying full-stack containerized web applications to providers including AWS and GCP
 - Comfortable in DevOps roles; can architect CI/CD pipelines that streamline developer experience

Extracurricular Interests

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- **Music:** jazz bassist in UVA chamber ensemble; weekly DJ at student radio station WXTJ
 - **Athletics:** cross-country runner and member of UVA Club Running