

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	
4.0/4.0 GPA, Dean's List	
University of Oxford , Oxford, United Kingdom	Study abroad, Fall 2021
<i>Reading:</i> Computer Science	
Visiting Student 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

United States Special Operations Command , Tampa, FL	June 2021 – August 2021
<i>Civic Digital Fellow</i>	
<ul style="list-style-type: none">Participated in the Civic Digital Fellowship, a selective full-time summer internship program for students interested in the civic technology sectorBuilt <i>Aleph</i>, a cloud-native inference pipeline to support forward missions producing exploitable imagesTrained and deployed variety of machine learning models to assist in workflow and automation gapsMaintained active secret level security clearance	
UVA Mathematics Department , Charlottesville, VA	February 2021 – May 2021
<i>Undergraduate Grader</i>	
<ul style="list-style-type: none">Graded homework assignments for over 50 students in MATH3100: <i>Introduction to Probability</i>Drafted emails rectifying student misconceptions and offering targeted assistance on problems	
theCourseForum , Charlottesville, VA	January 2021 – Present
<i>Full-Stack Software Engineer</i>	
<ul style="list-style-type: none">Worked at theCourseForum.com, a course review and scheduling site with over 41,000 usersCoordinated with team and utilized CI/CD pipelines on collaboration platform GitHubDeveloped new features and fixed bugs using technologies like Django and PostgreSQL, deploying Python applications to cloud targets such as Heroku and Google App Engine	
LEAD Technologies, Inc. , Charlotte, NC	April 2020 – July 2020
<i>Software Development Intern</i>	July 2019 – August 2019
<ul style="list-style-type: none">Produced apps like an automatic document scanner for Android and iOS using C# and XamarinDesigned and implemented a novel gradient descent algorithm to improve quality of scanned documents	

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 membersMaintained club site virginia.clubrunning.org and ListServ with 1,300 subscribersEngineered 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