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

University of Oxford, Oxford, United Kingdom Study abroad, Fall 2021
  Reading: 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
Civic Digital Fellow
- Participated in Civic Digital Fellowship, a selective full-time summer internship program for students interested in the civic technology sector
- Built *Aleph*, an inference pipeline to support forward missions producing exploitable images
- Utilized variety of machine learning models to assist in workflow and automation gaps
- Maintained active secret level security clearance

LEAD Technologies, Inc., Charlotte, NC July 2019 – August 2019
Software Development Intern April 2020 – July 2020
- 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

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 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

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 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

Technical Skills

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