Joseph E. Kerrigan

Email: jek4qv@virginia.edu | **Homepage:** kerrigan.dev
LinkedIn: linkedin.com/in/joseph-e-kerrigan

Education

University of Virginia, Charlottesville, VA   Anticipated Graduation: May 2023
    B.A., Computer Science and Intended B.A., Mathematics
    Honors: Jefferson Scholar, Echols Scholar
    4.0/4.0 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

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

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

- *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

- **Music:** jazz bassist in UVA chamber ensemble; weekly DJ at student radio station WXTJ
- **Athletics:** cross-country runner and member of UVA Club Running
- **Open-source:** owner of and contributor to several open-source software projects on GitHub