

John Zoscak

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EDUCATION

University of Virginia (UVA), School of Engineering and Applied Science, Charlottesville, VA May 2024
Bachelor of Science in Computer Science GPA: 3.68/4.00

Battlefield High School, Haymarket, VA June 2020
Advanced Degree, CASIIT gold award, *Summa Cum Laude* Weighted GPA: 4.48

TECHNICAL SKILLS

Proficient in: Java, Git

Experience with: Python, MATLAB, C++, Linux, x86, Octave, Haskell, HTML, CSS, JavaScript, React Native & JS

Tools: Jet Brains IDEs, Eclipse, Android Studio, VS code, Microsoft Office, Google Suite, Trello, GitHub

COURSEWORK

- Digital Logic Design
- Program and Data Representation
- Theory of Computation
- Software Development Methods
- Advanced Computer Studies
- Data Structures and Algorithms

EXPERIENCE

First Robotics Competition (ILITE Robotics Team) 2019 – 2020

- Developed robot code in Java to prepare a robot for a custom competition
- Working with a team of 11 people in a git repository, presenting progress, and participating in discussions about robot systems and goals outside my personal tasks
- Integrated a movement function to swerve robot around obstacles and to dodge opponent defenses
- Automated a robot task to turn a color wheel and to track its state using enumerations
- Investigation and enhancement of telemetry between systems of the robot. Integrated a CSV logger under the scope of a Scheduled Executor Service to increase write speed and evenly distribute USB writing resources

Junior Software Developer (Glimmr) 2021 – now

- Developed in HTML, CSS, Javascript and ReactJS to implement dynamic elements of a website
- Write tests for cloud functions to ensure successful operation

PROGRAMMING PROJECTS

Dijkstra's Algorithm July 2021

- Implementation in Java knowing only the theory of the algorithm. Use of data structures like priority queues to implement pathfinding

Mobile Apps December 2019 – February 2020

- Use of Android Studio to create apps for android phones

LEADERSHIP & ENGAGEMENT

Boy Scout Troop 924, Eagle Scout 2011 – 2020

- Roles:** Senior Patrol Leader, Crew Chief, Quartermaster, Instructor, Troop Guide, and Patrol Leader
- Activities:** Fulfilled managerial requirements for successful meetings/outings, training, communication, community service projects, leadership mentoring, & promoting teamwork with peers in the troop; 180 hours of volunteering
- Eagle Scout Project:** Organizing tasks and mobilizing the troop to create a walkway between an animal shelter and a parking lot

CASIIT Student Leadership November 2019 – April 2021

- Member of a student leadership group for a new school program that encompassed IT classes at Battlefield high school. Discussion of systems to increase student involvement and interest in IT

Orchestra Section Leader

- Long term dedication and practice to achieve string instrument dexterities. Demonstration of techniques for others

HONORS & AWARDS

Principal's Honor Roll – Battlefield High School 2018-2019

AP Scholar with Honor 2019

Networking Specialist Certificate (From NVCC) June 2020