

Education

2018-2021 **Bachelor of Science**, *The University of Virginia*, School of Engineering and Applied Science.

Major: Computer Science

Courses: Algorithms, Artificial Intelligence, Calculus, Circuit Design, Classical Mechanics, Compilers, Computer Architecture, Computer Graphics, Data Structures, Discrete Mathematics, Game Design, Linear Algebra, Operating Systems, Ordinary Differential Equations, Probability, Software Engineering, Theory of Computation

Skills

Languages C++, Python, Java, Bash, Assembly, Perl

Software Mathematica, \LaTeX , MATLAB

Web HTML/CSS/Js, React, WebAssembly

Systems Arch-linux (Linux), Windows, Arduino

Experience

2020 Summer **Software Engineering Intern**, *Cvent*.

React, Apollo, NextJS: Constructed an end-to-end 'Contact-Us' service, interface loading indicator, and search status indicator as part of a sprint team at Cvent for the Connect 2020 event. Tens of thousands of people used my application features.

2017-2018 **Junior Biophysics Research Scientist**, *Elon University*.

MATLAB: Implemented a magnetic micro-sphere simulation to understand the motion of micro-sphere alignments within the body; used in a research project for non-invasive delivery of medicine.

2016 Summer **Junior Natural Language Processing Research Scientist**, *Virginia Commonwealth University*.

Perl: Implemented a medical literature based discovery package which takes terms (like symptoms) as input and returns a list of medical conditions sorted by association percentages.

Projects

2020-Present **Andromeda/Waker Online**.

C++ A P2P MMORPG educational project. Areas of interest include: Vulkan Rendering, Raytracing, Component Systems, Platform abstraction, Peer to Peer Networking and Block-chain verification.

2019-2020 **Number Theory**.

Mathematica projects for the study of conventional prime numbers, arithmetic progressions, n-ary pascal sequences, and others. See robbie-vanderzee.github.io for visualizations.

Miscellaneous Achievements

2019-2021 **E-sports**, *Chess*.

Rank: currently ranked 66080/3.29M (Top 1.50%)

2016-2019 **E-sports**, *League of Legends*.

North America: previously ranked 1000/1.7M (Top 0.06%)

2018 **Elon University**, *Physics*.

Award: *Outstanding first year Physics student*

Strengths

Competition I can be competitive where necessary — facilitating rapid, continuous learning.

Teamwork I'm a strong team player and communicator. I can explain my work concisely, clearly, and simply.

Tenacity I continually work on my endeavors over long stretches of time, and enjoy rather than lament difficulty.

Languages

English **Native**

Korean **Intermediate**

Con conversationally fluent