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Benjamin Orndorff

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School Address:
132 Dunglison,
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Education

University of Virginia, Charlottesville, VA   *Expected May 2023*
- Bachelor of Science in Computer Science
- Cumulative GPA: 3.881/4.000

Fairfax High School, Fairfax, VA   *August 2015 - May 2019*
- Graduated with an Advance Diploma
- Cumulative GPA: 4.23/4.00

Relevant Coursework
- *Past:* AP Computer Science A, Adv Computer Science AB
- *Fall:* CS 2110 Software Development Methods, ENGR 1624 Introduction to Engineering, STS 1500 Science, Technology, and Contemporary Issues
- *Spring:* CS 2150 Program and Data Representation, CS 2102 Discrete Math, ECE 2330 Digital Logic Design

Projects

Animal Crossing Music Player   *October 2018*
- A java program that functions as an hourly radio player by playing music based on the user's time
- Created for CavHack Hackathon, an 8-hour competition, to be judged in the java category
- Implemented threading, java swing GUI, file input and reading, and sound functionality
- Awarded runner up in creative category at the hackathon
- Reworked in March 2020 to be a bot using node.js

Media Assistant Discord Bot   *March 2020*
- A project created and submitted for the HooHacks 2020 hackathon
- A Discord Bot that acts as a watchlist for animated media using typed user commands
- Implemented using Node.js as well as extensive use of Git for project management

Solenoid Energy Harvesting Provisional Patent Application (PPA)   *November 2019*
- An Assignment for STS 1500 to generate an engineering concept that fulfills an UN sustainable development goal, prepare a PPA for it, and then pitch it
- The project required extensive team collaboration for research of prior art, writing the PPA, and preparations for public speaking.

Experience

UVA Solar Car Team   *September 2019 - Current*
- Member of the solar sub-team that is working on integration of solar panels onto the solar car
- Performed analysis on solar panels to find voltage, current, and irradiance
- Collaborated with other sub-teams to manufacture the solar system on the car

Fairfax High School Science Olympiad   *September 2017 - May 2019*
- Elected as engineering captain for the 2018-2019 season
- Competed at multiple national and state level tournaments in engineering and inquiry events
- Helped organize and run Fairfax Invitational and Fairfax Regional Tournaments in 2019
- Organized Fairfax team for competitions

Skills

- Experience in C++, Node.js, HTML/CSS, Git, Excel, and MATLAB
- Proficiency in Java