Ian Johnson

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Summary

I am a quick and versatile learner, adaptable to a variety of challenging situations and tasks. I have a strong background in mathematics, as well as experience in computer programming.

Education

University of Virginia **May 2017**
B.A. in Mathematics (advanced track) and Physics *Overall G.P.A.: 3.96*

- Echols Scholar
- Edwin E. Floyd Prize in Mathematics (2017)
- Intermediate Honors (2016)

Experience

Volunteer Tutor **September 2017–Present**
FACETS *Centreville, VA*

- Teach computer, math and English skills to adults and children in a low-income community.
- Provide proactive technical support to community center.

Undergraduate Physics Researcher **April 2015–September 2017**
UVa Solid Polarized Target Group *Charlottesville, VA*

- Develop simulations and mathematical models from systems of differential equations and real data.
- Design and implement software to assist in lab tasks.

Undergraduate Mathematics Researcher **May 2016–July 2017**
University of Virginia *Charlottesville, VA*

- Apply individual study of new material to research efforts.
- Collaborate with research adviser to investigate novel concepts.

Vice President and Secretary **May 2015–May 2017**
Kinetic Sound *Charlottesville, VA*

- Co-founded successful student organization.
- Coordinate logistics of large-scale events with over one hundred attendees.

Skills

Computer Proficiency

- Experienced with Windows and GNU/Linux systems (day-to-day usage and basic administration)
- Proficient in Microsoft Office (Word, Powerpoint, Excel) and equivalent products

Programming

- Languages: C, JavaScript, Rust, LabVIEW, C++
- Web tools: HTML, CSS, JSON
- Development tools: Git, make, NPM/Yarn, GCC, POSIX shell scripting
- GitHub: https://github.com/ianprime0509

Publications and presentations

- Chain Posets (https://arxiv.org/abs/1802.05813)
- Automated Microwave Frequency Control in Dynamic Nuclear Polarization Experiments (http://meetings.aps.org/link/BAPS.2016.APR.K10.2)