

Zachary Long

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Education

Virginia Tech

Bachelor of Science, Major in Computer Science, Minor in Mathematics

Blacksburg, VA | Graduated December 2021

GPA: 3.88/4.0 | Dean's List student

Skills

- Leading group activities
 - Fostering creative environments
 - Working on diverse teams
 - Hosting events
 - Presenting to large and small audiences
 - Agile
 - Scrum
 - Microsoft Office
 - MacOS
 - Windows 10
 - Linux/Unix
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Leadership

Vice President | Gaming Project at Virginia Tech

Fall 2018 – Fall 2021 | Blacksburg, VA

- Presented game design topics and Unity tutorials during weekly club meetings.
 - Hosted and participated in university Game Jams.
 - Increased membership 3-fold after joining in 2017.
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Research Experience

Research Intern | King Abdullah University of Science and Technology

May 2021 – August 2021 | Thuwal, Saudi Arabia

- Developed an R Package for flexible permutation testing for high and low dimensional data.
- Reduced evaluation time 1000% with R and C++ integration.
- Drafted a paper for submission to the Journal of Statistical Software.

Data Analyst | Interactive Genome Analysis Laboratory

Fall 2018 – Fall 2019 | Blacksburg, VA

- Collaborated across academic disciplines with biologists.
 - Built a command line tool with Python to calculate dN/dS in non-coding RNA.
 - Demonstrated basic data visualization with a heat map of RNA sequences.
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Software Experience

Software Engineer Intern | Capital One

Summer 2020 | Virtual due to Covid-19

- Collaborated effectively in an intern pod of 4 in an Agile Scrum environment virtually.
- Pushed to production a redesigned Agent facing UI to address real agent feedback.
- Deployed code through Peer Review and an automated deployment environment.

Software Engineer Co-Op | Peraton

January 2020 – May 2020 | Blacksburg, VA

- Collaborated in an Agile Scrum team of 5 on a government contracted project.
- Developed in a diverse tech stack of C++, Java, Postgres, and Javascript.
- Improved UI/UX in React.js for traffic simulation frontend.
- Resolved synchronizing and threading issues between a C++ and Java backend.

Software Engineer Intern | 1901 Group

Summer 2019 | Blacksburg, VA

- Wrote automated tests using Selenium for web applications.
- Cooperated with diverse team of engineers to report and solve issues.
- Stabilized application functionalities and builds for government client.