

Charles J. Seaver

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(571) 271-2190

Fairfax, VA

Education

James Madison University, Harrisonburg, VA

*B.S. in **Engineering** (ABET Accredited) with minors in **Computer Science, Robotics, and Mathematics***

Major GPA: 3.25 | Cumulative GPA: 3.09

Graduation date: May 2021

Experiences

Developed and published the app, “Ring Pop: A Speedrun Game” on Google Play August 2019

- Designed and programmed an android application using Java, where players try to fit circles inside the area of a ring through all 90 levels. This application incorporates collisions, user input, graphics, threads, and a database for a global leaderboard.

Texas A&M: Invent for the Planet, placed top 5 globally April 2020 - Current

- Placed top 5 for a second time in a row. Worked with a dedicated and intelligent group of four, where we designed a phone application that would navigate pedestrian travelers through user preferred routes.

Texas A&M: Invent for the Planet, placed top 5 globally April 2019 - May 2019

- Worked in a creative team of three, where we designed and pitched a self inflatable aircraft wing cover in a 48 hour global competition. Out of 100+ teams, we were chosen as top 5, and traveled to Texas A&M to compete in the final round.

Innovation X: JMU Bluestone Hackathon, placed top 5 February 2019

- Led a diverse team of four members to design, prototype, and pitch an automatic train derailment detector in a 24 hour hackathon competition. Announced as an honorable mention from the top placing teams.

Human Powered Vehicle Design, Lead Engineer August 2018 - May 2019

- Cooperated in a two semester project of designing and fabricating a human powered vehicle for a client with spastic cerebral palsy. Focused on frame analysis, center of gravity, vehicle performance, and gearing.

Stanley Black & Decker: BuildBox November 2018 - December 2018

- Pitched and tested environmentally friendly trimmer line to the company, Stanley Black & Decker. Recognized with impressed feedback and gratitude.

JMU Competitive Intramural Soccer, team captain November 2016 - Present

- Managed and led an intramural soccer team.

Work Experience

James Madison University, Harrisonburg, VA — *Math Tutor*

September 2019 - Current

- Refined mathematics and communication skills and helped other students solve algebra, precalculus, and calculus I - III problems.

Amazon, Springfield, VA — *Prime Now Associate*

May 2019 - August 2019

- Trained and experienced in Amazon’s Prime now facility process and customer service.

Relevant Skills

- Programming languages: Java (fluent), C++ (proficient), HTML/CSS (proficient)
- Proficient in Solidworks/AutoCad/Matlab/MS Office
- Experienced in working with Arduino and Raspberry Pi