

# Davin Procopio

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## EDUCATION

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**Westfield State University** • B.S. Computer Science with Minor in Mathematics

May 2022

GPA 4.0/4.0 • Dean's List 3/4 semesters

Placed 2nd in the 2022 CCSCNE team programming competition.

**Relevant Coursework:** Software Engineering, Data Structures, Database Management, Theory of Computation

## PROJECTS

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**GitHub:** <https://github.com/DavinPro>

**WSU Tower Defense** • **Tech Used:** Java, Android, Git, Scrum

- Developed an Android tower defense game following MVC design pattern in 2-week Scrum sprints.
- Collaborated with a team of 5 developers via Git source control and peer programming.
- Separated business logic from UI using multi-threading to maintain responsiveness.
- Utilized AWS MySQL RDS database to store and retrieve player high scores.
- Showcased during the WSU Evening of Discovery event for student excellence.

**Typing Practice** • **Tech Used:** JavaScript, Vue.js, Node.js, Express.js, AWS (RDS, EC2), MySQL

- Developed a full stack web application for practicing touch typing keyboard skills.
- Implemented REST API using Express.js that communicates with AWS MySQL RDS.
- Hosted API and static files using Node.js on AWS EC2 instance.

**Snake Game** • **Tech Used:** Java, JavaFX, CSS, Maven

- Developed a desktop application of the classic Snake game in Java.
- Stylized components and application themes through CSS.
- Leveraged multi-threading to customize playing of audio effects and music.

**Particle Physics** • **Tech Used:** C++, SFML, CMake

- Developed a desktop particle physics simulator using SFML for graphics.
- Used CMake configuration file to allow platform-independent project generation.
- Optimized collision detection using a quadtree to reduce the number of checks.

## SKILLS

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**Proficient:** Java, C++, SQL, Git/GitHub, Agile Methodologies

**Familiar:** C, Python, Haskell, JavaScript, Node.js, Express.js, Vue.js, SFML, OpenGL, JavaFX, HTML, CSS, AWS

## WORK EXPERIENCE

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**Iron Pioneer Metalsmiths** • Apprentice Blacksmith

2017 – 2022

- Optimized forging and welding processes to meet deliverable deadlines.
- Maintained and improved performance of tooling and equipment.
- Designed new products and components for existing products.