

Noah Ruderman

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EDUCATION

San Jose State University <i>Bachelor of Science in Computer Science (GPA 3.9, President's Scholar)</i> Coursework: DSA, Operating Systems, Computer Architecture, Computer Networks, Information Security	San Jose, CA <i>Expected Graduation Dec. 2027</i>
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EXPERIENCE

FIRST Robotics <i>Monta Vista Robotics Team</i>	Aug. 2020 – May 2024 <i>Cupertino, CA</i>
Building Attendant <i>City of Cupertino</i>	Oct. 2023 – Present <i>Cupertino, CA</i>
Store Associate <i>TJMaxx</i>	Aug. 2023 – Present <i>Cupertino, CA</i>
<ul style="list-style-type: none">• Prototyped, machined, and assembled parts for the Competition robot• Designed and modeled a simple car for rookies to build during trainings• Led lessons on CAD to teach students from 2nd-9th grades	

PROJECTS

Online Board Game <i>TypeScript, WebGL, UI/UX, Golang, Render</i>	Feb. 2024 – Present
<ul style="list-style-type: none">• Developed a full-stack web application using Go serving a websocket API with WebGL2 as the frontend• Implemented multi-player support with multiple devices connected to the same game• Publicly hosted via Render to allow global access	
Terrain Viewer <i>C++, CMake, TypeScript, WebGPU</i>	Winter 2025
<ul style="list-style-type: none">• Developed a C++ application to analyze Earth's elevation data• Created a web interface utilizing WebGPU• Multiple modes of visualization for surrounding topographic features with a given location	
Circuit Solver <i>Java, CLI</i>	Summer 2025
<ul style="list-style-type: none">• Developed a CLI Java application to solve a given circuit with a variety of electrical components• Implemented a complex matrix solver to find solutions	
Custom CPU Design <i>C++, Java, Assembly</i>	Jan. 2023 – Aug. 2023
<ul style="list-style-type: none">• Designed and Emulated a 8-bit CPU Instruction Set• Featured an Interrupt Controller and MMIO to display with graphical output• Wrote an assembler to easily create programs	
Discord Bot <i>JavaScript, Node.js, Discord.js, API</i>	2020 – 2023
<ul style="list-style-type: none">• Developed and maintained a fun Discord bot used by 20+ users• Created several text and image manipulation commands• Built persistent mini-games that could host several users over multiple rounds	

ACTIVITIES

SJSU Competitive Programming Team

ICPC Competition

TECHNICAL SKILLS

Languages: Java, C/C++, Rust, Python, Golang, JavaScript, HTML/CSS, Swift, Ruby, Bash, MySQL

Frameworks: Node.js, TypeScript, JUnit, React

Developer Tools: Git, Linux/Unix, Render, CMake, VS Code, Visual Studio, IntelliJ, Eclipse, Zed

Libraries: pandas, NumPy, Matplotlib

Misc.: Cloud, Encryption, Networks, Cybersecurity, Problem-solving