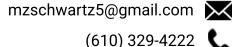
# **Matthew Schwartz**



# **Work Experience**

#### Amazon Web Services, Software Development Engineer

April 2022 - Present

- Develop Tying, a Java-based engine for automated patching and OS migration of Amazon hosts.
- Design and author integration and end-to-end load tests for the Tying engine.
- Improve dev-ops tooling and monitor service metrics proactively and in on-call capacity.
- Expand and maintain CI/CD and distributed cloud computing infrastructure-as-code.

#### Epic Systems, Software Developer

August 2019 - August 2021

- Develop and design the App Orchard website, a marketplace for third-party healthcare apps.
- Implement RESTful web APIs to expose health record data according to the HL7 FHIR standard.
- Pioneer transition of App Orchard site from MVC pattern to single-page React app.

# **Education**

#### Rice University, 2019

- B.S. in Computational Physics; Minor in Computational and Applied Mathematics.
- GPA: 3.88.

### **Projects**

### Personal Blog Site, <a href="https://mattzschwartz.web.app/">https://mattzschwartz.web.app/</a>

- · A personal website, portfolio, resume, and blog built on the React framework.
- Technologies: React, Recoil, Typescript, Firebase, HTML, CSS, Material UI.

### Game Engine, <a href="https://github.com/mzschwartz5/Game-Engine">https://github.com/mzschwartz5/Game-Engine</a>

- · A home-made 3D renderer, physics simulator, and game play engine bundled together.
- Technologies: C++, OpenGL.

### Morels, <a href="https://github.com/mzschwartz5/Morels">https://github.com/mzschwartz5/Morels</a>

- A two-player strategy card game built in Unity3D, playable over a LAN connection.
- Technologies: C#, Unity3D, Blender, Mirror Networking.

### Jewel3d, <a href="https://matthatter419.itch.io/jewel3d">https://matthatter419.itch.io/jewel3d</a>

- A modern 3D take on the classic game Bejeweled, made in 48 hours for the Retro Game Jam.
- Technologies: C#, Unity3D, Blender, Garageband

# **Research Experience**

### **Defect Engineering In Semiconductors**

January 2019 - May 2019

Rice University Electrical Engineering Department, Houston, TX

- Imaged and analyzed defect-engineered transition metal dichalchogenides using STM techniques.
- Cleaned and applied Fourier transforms to data in MATLAB to resolve new electronic structures in the samples.