

Peter (Rocky) Villano

saej.in

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PROFESSIONAL EXPERIENCE

Professional Development

October 2025 - Present

- Developed words.saej.in, a collection of tools for word games, to apply my deep understanding of data structures and algorithms.
- Currently working on SDF2STL, a tool for designing and 3D printing implicit models

Full-Stack Engineer Agrippa Technology – Las Vegas, Nevada

May 2025 - October 2025

- Orchestrated a live migration to a serverless architecture, reducing hosting costs with zero downtime
- Wrote backend row-level security policies that enabled fearless fast-paced frontend development

Independent Software Consultant

Power Law Systems – Fort Wayne, Indiana

March 2024 - May 2025

- Developed a bespoke performance management app to fit existing workflows
- Architected a user-friendly, deeply integrated live site content editor
- Set up automatic formatting, code quality checks, and deployment
- Parametrically generated individualized name placards for multi-material 3D printing

Assistant Research Programmer

Center for Research Computing – University of Notre Dame

July 2019 - April 2021

- Empowered client to resolve issues independently with expressive administrative tools
- Designed dynamic visualizations for instant feedback in a React Native app
- Implemented a RESTful API with integrated JSON Schema validation
- Organized a series of lightning talks to facilitate interdepartmental knowledge transfer

Honors Research Project

Computer Graphics and Visualization Lab – Purdue University

Jan 2019 - May 2019

- Created automatic statistics generator that integrated Python and Excel
- Contributed to an Android app, using camera and networking APIs in Java

Undergraduate Research Assistant

Center for Research Computing – University of Notre Dame

May 2017 - Aug 2018

- Developed Android app used for machine learning data acquisition in Java
- Programmatically generated insightful visualizations

LEADERSHIP EXPERIENCE

Event Planner, Social Media Manager

BoilerMake Hackathon – West Lafayette IN

Jan 2016 - Dec 2019

- Directed advertising that attracted 1600 applicants to Purdue's premier hackathon

Eagle Scout

Scouts BSA Troop 572 – Granger IN

June 2008 - June 2015

- Lead a team of twenty in the construction of concrete telescope platforms

EDUCATION

B.S. in Computer Science Honors; Minors in Mathematics & Psychology

Purdue University – West Lafayette, IN

May 2019

- Overall GPA: 3.2; Major GPA: 3.7
- Intro. Computer Animation: Created color-blind gaming accessibility utility
- I/O (workplace) Psychology: leadership, inclusivity, and positive work environments

TECHNICAL SKILLS

Proficiencies: Autodesk Fusion, Bash, C, C++, C#, Django, Docker, Git, Java, JavaScript, Linux, NGINX, Node.js, OpenSCAD, Postgres, Python, React, SQL, Supabase, Typescript, Unity

Misc. Skills: 3D Printing, Safe Cracking, Wilderness Survival, Poetry