

Peter (Rocky) Villano

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Granger, IN 46530

PROFESSIONAL EXPERIENCE

Power Law Systems, Fort Wayne, Indiana

Independent Software Consultant

March 2024 - Present

- 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

Center for Research Computing, University of Notre Dame

Assistant Research Programmer - Wellbeing at Work

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

Computer Graphics and Visualization Lab, Purdue University

Honors Research Project (for credit)

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

Center for Research Computing, University of Notre Dame

Undergraduate Research Assistant (Summer)

May 2017 - Aug 2018

- Developed Android app used for machine learning data acquisition in Java
- Implemented an image upload server backend API using PHP and SQL
- Programmatically generated insightful visualizations in Python

Engineering and Science Computing, University of Notre Dame

Computer Consultant (Summer)

June 2013 - Aug 2016

- Collaborated with students, professors, and staff to solve IT problems
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LEADERSHIP EXPERIENCE

BoilerMake Hackathon, West Lafayette IN

Event Planner, Social Media Manager

Jan 2016 - Dec 2019

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

Boy Scouts of America, Troop 572, Granger IN

Eagle Scout

June 2008 - June 2015

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

Purdue University, West Lafayette, IN

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

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
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TECHNICAL SKILLS

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

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