

# Peter (Rocky) Villano

github.com/pvillano  
linkedin.com/in/pvillan

peter.s.villano@gmail.com  
(574)-855-9777

50630 Hollybrook Drive  
Granger, IN 46530

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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

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## PROFESSIONAL EXPERIENCE

**Center for Research Computing**, University of Notre Dame

*Assistant Research Programmer*

July 2019 - Present

- Designed, implemented, and documented RESTful APIs
- Developed unit and integration tests with unittest and Factory Boy
- Developed custom interactive debugging and administrative tools
- Deployed web server using Nginx, Docker-Compose, and Bash Scripts

**Computer Graphics and Visualization Lab**, Purdue University

*Honors Research Project (for credit)*

Jan 2019 - May 2019

- Created automatic statistics generator with significant results display
- Consulted on ergonomics for an augmented reality user interface
- Contributed to an Android app, using camera and networking APIs

**Center for Research Computing**, University of Notre Dame

*Undergraduate Research Assistant (Summer)*

May 2017 - Aug 2018

- Examined Tensorflow for suitability in satellite image classification
- Developed Android app used for machine learning data acquisition
- Implemented a server backend 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
- Presented cost analysis of adopting virtual desktop infrastructure

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## LEADERSHIP EXPERIENCE

**BoilerMake**, West Lafayette IN

*Software Developer*

Jan 2018 - Dec 2019

*Event Planning Board Member*

Jan 2017 - Dec 2018

*Social Media Coordinator*

Jan 2016 - Dec 2017

- Attracted largest ever applicant pool (1600) to Purdue's premier hackathon

**Boy Scouts of America**, Troop 572, Granger IN

*Eagle Scout*

June 2008 - June 2015

- Constructed three telescope platforms at Potawatomi Wildlife Park

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## AFFILIATIONS

Association for Computing Machinery

Sept 2015 - present

Special Interest Group on Graphics and Interactive Techniques

Sept 2015 - present

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## TECHNICAL SKILLS

**Proficiencies:** Python, Django, NGINX, C, C++, Java, GLSL, Bash, OpenSCAD, OpenGL, SQL, Blender, PHP, JavaScript, Android

**Misc. Skills:** Safe Cracking, Wilderness Survival, Poetry