Akhil Gudipaty

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EDUCATION

The Pennsylvania State University, University Park, PA — May 2023
Schreyer Honors College — GPA: 3.76
Bachelor of Science in Computer Science
Minor: Statistics

SKILLS AND COURSES

- **Courses**: Operating Systems, Systems Programming, Artificial Intelligence, Data Structures and Algorithms, Digital Design, Computer Organization and Design, Object Oriented Programming, Linear Regression, Database Management Systems, Application Programming, Theory Of Computation, Programming Language Concepts
- **Skills**: Python, Java, C, C++, Swift, HTML, CSS, Django, Flask, SAS, Jinja2, JSON, Minitab, SQL, Relational Databases, Git, AWS, Cloud Computing, Knowledge on Agile Scrum Methodology, Knowledge on DevOps pipelines and processes, OS Knowledge: MacOS, Windows, Linux(Ubuntu and Redhat)

EXPERIENCES

Ernst & Young — **San Francisco, CA**
Cybersecurity Consulting Intern — June 2022 – August 2022

- Worked on multiple client engagements that include developing and delivering technology strategies, architectures and roadmaps for clients to enable their business strategies.
- Our team managed large-scale technology-enabled business transformations as well as advised clients on areas such as system selection and vendor selection, helping them **optimize their IT costs by almost 30%** and establish effective IT governance.
- Worked in **Cloud Security and Penetration testing** cybersecurity fields.

National Aeronautics and Space Administration (NASA) — **Remote**
Software Engineering Intern — August 2021 – May 2022

- Designed and developed a new, interactive, web-based tool to improve the use of lessons learned across ground and flight projects related to NASA missions. Increased **efficiency and execution time by 50%** from the previous version.
- Used web technologies like **Django, HTML, CSS, JavaScript, and Docker**.
- Developed this project using Agile/Scrum processes including sprint meetings, daily standup meetings, and sprint reviews.

RELATED EXPERIENCES

Research Assistant — **University Park, PA**
Pennsylvania State University — September 2022 – May 2023

- The goal of the research is to evaluate policy efficiently in POMDP algorithms using circulant matrices, which can be solved using enhanced circulant matrices solvers. Developed a scholarly argument and produced a thesis on this.
- Used Python to code these enhanced circulant matrices solvers. You can view my thesis here: https://honors.libraries.psu.edu/catalog/8731azg5880

PROJECTS

PartyFinder — **University Park, PA**
Founder — May 2022 – Present

- Designed and developed an industry level application that allows college students to find parties and other social events near them. Used **Swift** and **Firebase(Database)** to launch this app

HEALER (AI Project) — **University Park, PA**
Project Leader — January 2021 – May 2021

- Implemented a software agent using **C++,** which is a POMDP problem, that recommends sequential intervention plans for the homeless shelters, who organize these events to raise awareness about HIV among homeless youth

HACKPSU (Hackathon) — **University Park, PA**
Project Leader — August 2021 – August 2021

- Developed a website that can assess the mental health or state of mind of a person. Developed using **Python Django** on the backend and **HTML**, **CSS** on the front end