Suhaas P Katikaneni

Computer Science Junior from UChicago with 6 past industry/research internship experiences.
suhaaspk@uchicago.edu | 603-305-0765 | https://www.linkedin.com/in/suhaas-katikaneni/
https://devpost.com/suhaaspk | https://github.com/spknash

EDUCATION

- **University of Chicago: Bachelor of Science in Computer Science, Minor in Mathematics** (Expected: 12/2024)
  Relevant Courses: Data structures, Algorithms, Networks, Databases, Data Science, Deep Learning (Coursera certified), Cloud Technologies (Coursera), Discrete Math, Honors Calculus 1-3; Analysis; Linear Algebra, Biology

WORK EXPERIENCE

Pegasystems Inc. (www.pega.com) Boston, MA
Incoming Software Engineer Intern May 2023 – Aug 2023

- Developing code in **Java** for Pega's low-code workflow automation platform powered by AI decisioning.

AxLab, Univ of Chicago, Dept of Computer Science (https://www.axlab.cs.uchicago.edu/) Chicago, IL
Undergraduate Researcher Jan 2023 – Mar 2023

- Collaborated with Prof Nakagaki's research team to design and develop devices with actuated user interfaces.

PayPal Inc. (www.paypal.com) Chicago, IL
Software Engineer Intern, Quality and Security Assurance June 2022 – Aug 2022

- Developed automation software (**Python)** to test PayPal Sandbox API and functions. Automated application performance evaluation to assess efficiency data for 10 applications by building **Power BI** reports & dashboards.
- Improved the latency performance by 50% for the entry-writing **REST API** calls for PayPal Checkout. Adopted agile software development practices and tools like **CI/CD, Git, Confluence, and Jira**.

MITRE Corp. (www.mitre.org) Bedford, MA
Software Development Intern, Network Technology and Security (Summers 20 & 21) June 2020 – Aug 2021

- Contributed to a DoD sponsored project that aimed at making wireless communications more resilient and secure.
- Designed and implemented new features for a network emulation/analysis tool (**Python**). Overhauled the feature that records latency between satellite users; evaluated performance of dynamically adapting algorithms.
- Investigated and architected several **ML algorithms** for time-series drift detection & anomaly detection. Tested and refined model specifications and data visualization techniques. Presented results to 100+ engineer dept.

1Cademy (1Cademy) Ann Arbor, MI
UX/UI Intern (Part-time) Feb 2021 – June 2021

- Strengthened the UX/UI development of the collaborative and interdisciplinary learning platform.
- Provided content to 2 **Python** learning tracks – answered user questions. Authored UX/UI specifications.

Dartmouth College Hanover, NH
Research Intern with Prof. Ann Gelb July 2019 – June 2020

- Researched and analyzed change detection algorithms with applications in medical imaging and remote sensing.
- Optimized an edge detection algorithm for SAR images and improved the performance by 30%.

PROJECTS

- **Programmable Devices and Extensions:** Designed and developed: Haptic Slider to play Atari, Programmable Lamp Switch, Trash Can Counter - to count trash pickups per person etc.
- **Reddit genealogies:** Refactored and improved the code from a public git repository to visualize the relationship between related subreddits. Defined new metrics and visualized the genealogies between the subreddits for popular web development coding languages: react, angular, and node. reddit-gen
- **Hackathon Winner:** Designed and developed Fitness Bubble – a social media and rewards-based app to motivate students to be physically active. Won best UI/UX award (out of 278 teams) at NotUniversity Hacks 2020.
- **Greenhouse Automation:** Spearheaded garden devices development using Raspberry Pi, Python and AI/ML. Devised 5 OpenCV based devices to detect/deter garden pests, auto irrigate, and weather control. (2018-21).
- Emulating MMIX RISC computer in Wolfram Mathematica 2018 – emulated MMIX computer instruction set.

SKILLS

- **Languages:** Python, Java, C/C++, SQL, MATLAB, Selenium, PowerShell, Bash, JavaScript.
- **Frameworks/Libraries/Analytics:** React, Angular, Tensor Flow, PyTorch, Fast AI, Matplotlib, Scikit, Power BI
- **OS/Environments/Tools:** Linux, Windows, AWS; Microsoft Office; LaTeX; Git; Jira; Confluence.

EXTRACURRICULAR ACTIVITIES AND LEADERSHIP

- **UChicago Clubs/RSO's (2020-23):** Math Club, Uncommon Hacks, UChicago Fission Ultimate Frisbee
- **Nashua High School Clubs and Roles (2016-2020):** President, Math Team: led a team of 60+ students and won 4 NH state championships; Vice President, Science Bowl Team; Member: Varsity Tennis, Science Olympiad..
- **Hackathons (2018-Present):** Participated and won prizes in 6 Hackathons (online and onsite).
- **Chess (2012-Present):** Won 2x NH State Scholastic Individual and 3x Team Championships.
- **Awards/Recognition:** US Presidential Scholar Nominee (SAT: 1580); AP National Scholar; two times American Invitational Mathematics Exam (AIME) qualifier; WPI Invitational Mathematics Meet – led the team to top-3 place