Suhaas P Katikaneni

Computer Science Junior from UChicago with 6 past industry/research internship experiences.

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EDUCATION
- **University of Chicago: Bachelor of Science in Computer Science,** (Expected: 12/2024) Courses: Data structures, Algorithms, Networks, Databases, Data Science, Discrete Math, Honors Calculus; Analysis; Linear Algebra &Core
- Certifications/Moocs: Deep Learning Specialization (Coursera and FAST AI); Cloud Technologies (Coursera)

WORK EXPERIENCE

Pegasystems Inc. (www.pega.com)   Boston, MA
Software Engineer Intern   May 2023 – Present
- Developed personalized marketing apps (**Java)** for Customer Decision Hub - utilized **ML** and predictive analytics.

PayPal Inc. (www.paypal.com)   Chicago, IL
Software Engineer Intern, Quality and Security Assurance   June 2022 – Aug 2022
- Developed automation software (**Python/Selenium)** to test PayPal Developer Platform. Automated application performance evaluation to assess process efficiency for 10 applications by building **PowerBI** 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 2 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. Anne Gelb   July 2019 – June 2020
- Analyzed and optimized a change detection algorithm for SAR images. Self-taught image processing in **MATLAB**.

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 and INTERESTS
- **Languages/OS:** Python, Java, C/C++, SQL, MATLAB, Selenium, PowerShell, Bash, JavaScript. Linux, Windows
- **Frameworks/Tools:** Tensor Flow, PyTorch, FastAI, Matplotlib, Scikit, Power BI, MS Office; Git; Jira; Confluence.
- **Interests:** Hackathons, Ultimate Frisbee (UChicago Fission Team), Club Tennis and Chess (state scholastic wins).