

Ekam Ghai

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Experience

MLH Production Engineering Fellow (Meta & MLH) - May 2023 - September 2023

- Completed an intensive 12-week curriculum focused on core Production Engineering topics, augmented by industry expert-hosted events and workshops.
- Developed an open-source personal portfolio website template using a tech stack that includes Python, Flask, Jinja, MySQL, Nginx, and unittest.
- Streamlined development processes through automated testing and deployment workflows via CI/CD.
- Established robust system and container monitoring, alerting, and visualization utilizing Prometheus and Grafana.

Software Engineer Intern (Zipline) - June 2023 - August 2023

- Contributed as an intern dedicated to enhancing the company's services, leveraging the React framework.
- Worked diligently to improve product reliability, ensuring seamless user experiences.
- Used automation of testing and deployment workflows using CI/CD and Git.

MLH Software Engineer Prep Fellow (MLH) - March 2023 - April 2023

- Participated in an immersive 3-week preparation program within the MLH community.
- Collaborated with peers to build a portfolio of personal projects, experimenting with technologies such as React, Ruby, and HTML.
- Gained hands-on experience with CI/CD practices and more.

Lead Coding Teacher (Coder School) - July 2022 - Present

- Serve as a full-time educator, passionately teaching and empowering fellow students.
- Instructed a diverse range of programming languages, including C++, Rust, Python, Lua, Ruby, Java, Golang, JavaScript, React, Elixir, and more.
- Mentored and trained fellow teachers to foster a thriving learning environment.

Programming Captain FRC (Team 1403 Cougar Robotics) - August 2020 - Present

- Demonstrated leadership as the Programming Captain for Team 1403 Cougar Robotics.
- Led a team of programmers in the development and optimization of software solutions for competitive robotics challenges.
- Collaborated with team members to design, code, and test software to control the robot's movements and functions during competitions.
- Ensured efficient communication and coordination between the programming team and other sub-teams to achieve project objectives.
- Contributed to the success of Team 1403 Cougar Robotics in robotics competitions and fostered a culture of continuous learning and improvement.
- Contributed to the start of various open-source projects
- Created 1403 Vision project (more info below)

Teacher (Code Ninjas) - July 2019 - December 2019

- Fulfill the role of a dedicated educator, wholeheartedly guiding and empowering fellow students in their coding journey.
- Delivered comprehensive instruction in a wide array of programming languages, encompassing Java, JavaScript, Lua, and Python.
- Lead a coding camp by myself

Technical Experience

Globalssh - February 2023 - Present

- Simplifies SSH setup and maintenance, eliminating the need for complex software installations and configurations on local and remote systems.
- Provides accessibility to non-technical users by reducing SSH's technical barriers.
- Offers scalability advantages, particularly in larger networks, where SSH's port forwarding configurations become challenging.
- Reduces the complexity of managing port forwarding settings by centralizing them in a middle man.
- Easily scalable through the creation of new free accounts, streamlining network management.
- Assists with file transfer and CI/CD
- Overall, Global SSH offers a user-friendly, secure, and scalable alternative to traditional SSH, with a straightforward setup process and minimal maintenance requirements.
- Github: <https://github.com/carghai/globalssh>

1403 Vision - November 2021 - Present

- Developed the 1403 Vision designed to streamline the scouting process for identifying top-performing teams for Strategy Captains.
- Gathers data from other teams, simplifying the scouting and evaluation of potential alliance partners.
- Collects performance data from their most recent game or previous games, providing valuable insights for strategic decision-making.
- Aims to enhance team selection and alliance formation by leveraging historical performance data.
- Ongoing development and improvement of the Cougar Scouting App for continued effectiveness.
- Created an ai that process 15GB of data every 2 minutes in Rust
- Used automation and CI/CD
- Self Hosted
- App Store link: <https://apps.apple.com/us/app/1403-vision/id1600166833>
- Backend link: https://github.com/FRC-Team-1403/CSA_Backend

Open Source

- Worked on creating rust libraries that resulted in over 5k downloads
- Helped Fix Cocopods bugs
- Worked on small projects to fix major bugs and add important features

Hackathon Wins

- Won over 11 Hackathons
- My top 3 biggest wins are
 - Photo Cook
 - 2nd place in both Next Step Hacks 2022(405 people) and Hackedo(207 people)
 - link: <https://devpost.com/software/photo-cook>
 - School Smart
 - 2nd place in Tech Optimum Hacks 2022(306 people)
 - link: <https://devpost.com/software/school-smart>
 - Ghost Trainer
 - 1st place and GitHub prize in WWP Hacks 2022(152 people)
 - link: <https://devpost.com/software/ghost-trainer>

Personal Projects

- Self-hosts various services, including file storage, websites, password manager, and even a search engine, without relying on cloud services except for Proton Mail.
- Proficient Linux user since 2020 for personal computing needs.

Education

Montgomery High School(Diploma) - 2019-2024 (expected)