Shiwam Jaiswal

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EXPERIENCE

CPY3X | Open Source Developer
Sept 2022 - Present | Remote
- Creating an open source library that helps **embed Python Applications in Golang**. **GitHub Link**
- Created APIs **to access the 70% of the CPython public apis** through CGo that helps create in memory objects shared across Python and Go.
- Added **Backward and Forward Compatibility starting from Python Version 3.5.x till 3.10.x** by separating the STABLE ABI and version specific APIs into different modules.

BLACKROCK | Software Engineer
July 2021 – Sep 2022 | Gurugram, India

- Built Microservices using Golang, Python, GRPC with TDD approach to perform quality check on **more than a million incoming security prices concurrently**.
- Achieved Shift left by **reducing the latency in Quality Checks by 3 hours**.
- Debugged libqcaas(a library that could run python from golang) to resolve the memory leak issue, by **reducing the memory usage of the application by 90%** which made the infrastructure more scalable.
- Trained the entire team on how garbage collector works in Python, and on the coding patterns that should be used while writing CPython application to avoid memory leaks.
- **Reduced the codebase of libqcaas by 20%**, making it a generic interface for different QC types.

BLACKROCK | Software Engineering Intern
Jan 2021 – Jul 2021 | Mumbai, India
- Built a full stack application with React.js, Django and Django Rest Framework in order to create a learning platform for new hires in our team.
- Added middle-ware to implement Byte Range Header response, which allowed the users to skip the video files that we served from the back-end.
- Connected with different teams to understand the team functions and process flow. Created a course work and quizzes based on the data accumulated, this course material was hosted on the website we built.

OPENCV | Open Source Contributor
Jan 2020 – March 2020 | Remote
- Used OpenCv QrCode API and created an application that detected QRCode and Decoded it into text format - **PR**
- Added Doxygen tags to Charuco Board Detection Module in order to automatically generate verbose and updated documentation after every build. - **PR**

FREELANCER | People Per Hour
Jun 2021 – Aug 2021 | Remote
- Debug a website in Django and deploy it on PythonAnyWhere - **Live Website Review**
- Recorded videos for the bug fix and website deployment as per the client's request - **Youtube Link**

SKILLS

PROGRAMMING

2.1.1 Languages

- Proficient - Python, Golang
- Familiar - JavaScript, C, C++, Java, HTML/CSS

2.1.2 Tools

- VCS : Git
- Shell : bash, cshell
- OS : Linux, Windows
- Editor : VSCode, PyCharm
- Memory Profiling : Valgrind, Procfs

2.1.3 Technologies

- SQL • Python/Go Extensions • GRPC

OTHERS

- Swimming • Meditation • Calisthenics

LINKS

Blog:// **jshiwam**
Github:// **jshiwam**
LinkedIn:// **JShiwam**
YouTube:// **shiwamj3**

EDUCATION

VELLORE INSTITUTE OF TECH
BTech in Computer Science
May 2021 | Vellore, TN
Cum. GPA: 8.88 / 10

COURSEWORK

UNDERGRADUATE
Algorithms
Operating Systems
OOP with Python
Data Structures
RDBMS
(Open Source Software Engineering)
Computer Networks