Souvik Haldar

⊕ Portfolio | ☐ +91 865 314 9116 | @ souvikhaldar32@gmail.com | 🔗 LinkedIn | ○ GitHub | ◆ Kolkata, India

PROJECTS

- **Huntsman:** A versatile and highly concurrent malware written in golang.
- **Goffer:** Perform buffer overflow vuln testing and exploit
- **Polyload:** CLI tool to upload files to multiple cloud service provides simultaneously and easily.
- **go-ds:** Library of all data-structures implemented in Golang.
- **Loggator:** A simple and extensible log aggregator service written in golang and mySQL.

WORK EXPERIENCE

Imperva   Bangaluru, India
Software Engineer   *Nov 2020 – Dec 2022*
- Built a caching layer for configuration sync across services written in **Golang** that reduced latency by approx. 70%.
- Created **microservices** for extracting features from HTTP API calls, summarizing the features to reduce payload size and contributed to other microservices in **Golang**.
- Wrote **Groovy** script to generate code coverage report of all Golang microservices as a freestyle job in **Jenkins**

Biostrap   Kolkata, India
Backend Engineer   *May 2019 – Oct 2020*
- Built several **HTTP** and **gRPC** APIs in Golang with MySQL DB.
- Created CLI tool for DB migration, aggregating health metrics to generate monthy report, etc

Slurpalicious   Kolkata, India
Backend Developer   *May 2019 – Oct 2020*
- As a founding Backend Developer, created the the HTTP based web-server in Golang using gin-framework
- Independently researched and built location-aware APIs using PostGIS, PostgreSQL and Golang.
- Developed several other APIs and implemented oAuth authentication mechanism.

Hasura   Kolkata, India
Product Development Intern   *May 2017 – Aug 2017*
- Produced a web app named Hisab-Kitab, a personal expense management app using HTML, CSS, Javascript, Flask (python)and Hasura IAAS APIs.

AWARDS & ACHIEVEMENTS

Digital Ocean Hackathon: Ranked 2nd in Digital Ocean CloudHack hackathon across India

Modern Application Development MOOC: All India Rank in top 2 percentile in the MOOC organized by MHRD Govt of India and NPTEL, as a reward got selected for internship at Hasura.

SKILLS

Programming: Golang, Solidity, Python

Technologies: Linux, Ethereum, Git, Docker, Kubernetes, Penetration Testing, Web APIs, Prometheus, Grafana, gRPC, Vim, AWS

Languages: English, Hindi, Bengali

CERTIFICATES

Advanced Certification Program in Cyber Security and Cyber Defense: Reverse Engineering, Honeypot, Malware analysis, Web Security, Vulnerability Assessment and Penetration Testing,Intrusion Detection System, etc.

CodeChef Certified Data Structures and Algorithms Programme: Data Structures and algorithms, competitive programming, problem solving skills, etc.

EDUCATION

Techno Main Salt Lake   Kolkata, India
B.Tech in Computer Science and Engineering; **GPA: 7.35/10.00**   *Aug 2014 – July 2018*
Kendriya Vidyalaya   Adra, West Bengal, India
AISSCE Science; **Percentage: 80.02**   *April 2011 – May 2013*
CCE ; **CGPA: 9.6/10.0**   *April 2001 – March 2011*

REFERENCES

Sandeep Shukla, HOD CSE Indian Institute of Technology, Kanpur: Souvik is a bright young man with great skills in programming, and the ability to translate concepts into code really fast. In particular, he is a great go language programmer. He developed a very nice tool which he named Huntsman, a Swiss armyknife for offensive security and penetration testing which I was very impressed with. He is very aspirational and willing to dedicate his time to learning and creating technology which is a great asset among his other qualities. I believe he will reach great heights in technology entrepreneurship in the future.

Babji Perambattu, Engineering Manager, Imperva: I hired Souvik for my team in CloudVector which was later acquired by Imperva. Souvik worked directly with me for more than 2 years and I found him to be a good Golang programmer. Souvik has contributed in integrating CloudVector API Security product with Imperva's CWAF for a successful launch. He has keen interest in system design, cybersecurity research, writing technical blogs in addition to programming.

PUBLICATION

Implementing Enterprise Cybersecurity with Opensource Software and Standard Architecture, River Publishers: Authored a chapter on the offensive use of **Huntsman**, the multipurpose malware that I've developed for the research purpose.