Ishtiaq **Mahmood Amin**

ANDROID DEVELOPER · SOFTWARE ENGINEER

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"Be the change that you want to see in the world."

Summary

Current Site Reliability Engineer at start-up company Kasa. 7+ years experience specializing in the backend development, infrastructure automation, and computer hacking/security. Super nerd who loves Vim, Linux and OS X and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Work Experience

Adaptive Enterprise Limited
Dhaka, Bangladesh

SENIOR SOFTWARE ENGINEER · *Dec. 2014 - Present*

- Provisioned an easily managable hybrid infrastructure(Amazon AWS + On-premise) utilizing IaC(Infrastructure as Code) tools like Ansible, Packer and Terraform.
- Built fully automated CI/CD pipelines on CircleCI for containerized applications using Docker, AWS ECR and Rancher.
- Designed an overall service architecture and pipelines of the Machine Learning based Fashion Tagging API SaaS product with the micro-services architecture.
- Implemented several API microservices in Node.js Koa and in the serverless AWS Lambda functions.
- Deployed a centralized logging environment(ELK, Filebeat, CloudWatch, S3) which gather log data from docker containers and AWS resources.
- Deployed a centralized monitoring environment(Grafana, InfluxDB, CollectD) which gather system metrics as well as docker run-time metrics.

Cloudwell Limited
Dhaka, Bangladesh

SENIOR SOFTWARE ENGINEER · *Aug. 2013 - Dec. 2014*

- Implemented RESTful API server for car rental booking application(CARPLAT in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Korea.

AnnaNovas IT
Dhaka, bangladesh

SOFTWARE ENGINEER (ANDROID) · *Oct. 2011 - Jun. 2013*

- HelloGoogle
- Implemented a distributed web stress test tool with high anonymity.
- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.

Honors & Awards

INTERNATIONAL

2018	**Finalist,** DEFCON 26th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2017	**Finalist,** DEFCON 25th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2014	**Finalist,** DEFCON 22nd CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2013	**Finalist,** DEFCON 21st CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2011	**Finalist,** DEFCON 19th CTF Hacking Competition World Final	*Las Vegas, U.S.A*

DOMESTIC

2015	**3rd Place,** WITHCON Hacking Competition Final	*Seoul, S.Korea*
2017	**Silver Prize,** KISA HDCON Hacking Competition Final	*Seoul, S.Korea*
2013	**Silver Prize,** KISA HDCON Hacking Competition Final	*Seoul, S.Korea*

Presentation

DevFest Seoul by Google Developer Group Korea   *Seoul, S.Korea*

Presenter for <Hosting Web Application for Free utilizing GitHub, Netlify and CloudFlare>   *Nov. 2017*

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference)   *Seoul, S.Korea*

Presenter for <DEFCON 20th : The way to go to Las Vegas>   *Jul. 2012*

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Writing

A Guide for Developers in Start-up   *Facebook Page*

Founder & Writer   *Jan. 2015 - PRESENT*

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

Program Committees

2016   **Problem Writer,** 2016 CODEGATE Hacking Competition World Final   *S.Korea*
2013   **Organizer & Co-director,** 1st POSTECH Hackathon   *S.Korea*

Education

AUST(Ahsanullah University of Science and Technology)   *Dhaka, Bangladesh*

B.S. in Computer Science and Engineering   *Apr. 2007 - Sep. 2011*

- Completed graduation with CGPA 2.97 from CSE Dept.

Extracurricular Activity

PoApper (Developers' Network of POSTECH)   *Pohang, S.Korea*

Core Member & President at 2013   *Jun. 2010 - Jun. 2017*

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)   *Pohang, S.Korea*

Member   *Sep. 2010 - Oct. 2011*

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.