



Ashok Bommiseti

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🏠 Grüner Redder, Hamburg, Germany

Skills

Programming

Expert:

- Java

Proficient:

- Kotlin • Python • Javascript
- Shell Scripting

Familiar:

- Objective C • PL/SQL • L^AT_EX

Cloud Platform

- GCP • AWS

Tools

- Kubernetes • Docker • Terraform
- Azkaban

Build Tools

- gradle • Maven • Ant

Source Control

- git • SVN

Application Software

- IntelliJ IDE • PyCharm
- Android Studio • Eclipse IDE

Education

Syracuse University

M.S., COMPUTER SCIENCE

Summa Cum Laude

Amity University

B.TECH., ELECTRONICS & COMMUNICATION ENGINEERING

Best Student in Technical Innovation

Certifications

Python Programming

March 2015

Honors

- Phi Beta Delta

DEVELOPER WITH EXPERIENCE BUILDING SCALABLE SYSTEMS ON CLOUD. PASSIONATE ABOUT SECURITY AND PRIVACY ENHANCING TOOLS.

Experience

Shape Security | SR. SOFTWARE ENGINEER, DEFENCE INTELLIGENCE

Apr 2018 – July 2019 | Mountain View, CA

- Built infrastructure to run ML training and verification with special focus on scalability and availability.
- Built trainers to run supervised ML system on top of data warehouse in BigQuery.
- Implemented telemetry emitters for the jobs and built data pipelines that ingest streaming telemetry events to an enriched persistent store.
- Led the migration of monolithic code bases into scalable, mutually authenticated micro-services running on top of Kubernetes.
- Provisioned easily manageable infrastructure on GCP utilizing IaC(Infrastructure as Code) tools like Terraform.

Shape Security | SOFTWARE ENGINEER, MOBILE

Jul 2016 – Mar 2018 | Mountain View, CA

- Researching, defining, developing, and iterating on API Protection product with a focus on Android. This SDK currently has 200M+ installations running on over 2500 different models of devices.
- Implemented countermeasures to identify fraud using APIs more reliably.
- Worked on bringing the backend traffic processor into cloud-native world running on Kubernetes.
- Built a fully automated CI pipeline from scratch to build, test, and deploy four different SDKs connecting Jenkins on the cloud to on-prem test devices.

Inkling | BACKEND ENGINEERING INTERN

Jul 2015 – Dec 2015 | San Francisco, CA

- Worked on integrating analytics products with Azkaban, an OSS workflow manager.
- Successfully delivered a project re-wiring analytics from being pulled every day to every hour by doing required system scaling and changes to the polling system workflows.
- Transitioned traditional server environments to scalable systems using SaltStack, Jenkins, and Docker.
- Built a react-based UI to deliver analytics on a v2 dashboard.

Digital Ricochet | LEAD DEVELOPER

Aug 2012 – Dec 2013 | Hyderabad, India

- Developed a tool for Business flow aggregation, integration, and automation that is used by 9 clients.
- Built the initial PoC for v1 product, hired the team and drove a full product cycle till customer deployments.
- Built async infrastructure for faster communication interfaces between clients.
- Built the infrastructure using various public cloud components to scale between 10 and 200,000 TPS.

Accenture Services Pvt Ltd | ASSOCIATE SOFTWARE ENGINEER

Jun 2011 – Jul 2012 | Bengaluru, India

- Worked on middleware system of one of the largest telecom companies in the world, with a focus on network integration involving synchronous and asynchronous communications.
- Involved in the development of a generic proactive monitoring system that is deployed by 4 teams.
- Implemented the design of a performance testing automation suite that is currently used across the project.

Research

Cyber Security Research Group | RESEARCH ASSISTANT

Jan 2014 – June 2016 | Syracuse, NY

- Worked with **Paul Ratazzi** and **Dr. Kevin Du** to create **PinPoint**, an efficient and near-zero overhead implementation of namespace concept in Android framework.
- Design and development of Android launcher with a heavy focus on privacy and security.
- Built a complete in-house VPN system that is used by the members of the lab to work from anywhere.
- Developed SEED labs, educational labs for cybersecurity, used in over 700 schools across the world.

Publications

[1] P. Ratazzi, A. Bommiseti, N. Ji, and W. Du. PINPOINT: Efficient and Effective Resource Isolation for Mobile Security and Privacy. In *Mobile Security Technologies (MoST) 2015*, San Jose, CA, USA, May 21 2015.

[2] A. Bommiseti, V. Gupta, and P. Kumar. Object tracking – augmented algorithm. In *National Conference on Advancements in Signal Processing & Integrated Networks, SPIN'11*, Feb 2011.