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viyer5

Vighnesh Iyer

**Software Engineer in Runtime Team
Platform Engineering**

Key skills

- DevOps using **Kubernetes in EKS-AWS**. Leveraging **Istio** (Service Mesh), **Datadog & Splunk** (logs), Route53, Subnets & other AWS Services

- Operating systems: **Unix** and **Windows**.

- Database: **mySQL**&**Neo4j** database systems.

Education

- **M.S in Computer Science**
  08/2018 - 08/2020
  University of Illinois at Urbana-Champaign

- **B.S in Computer Science**
  08/2014 - 05/2018
  State University of New York at Buffalo

Programming

- Advanced: **Python**, **Java**, **Kotlin**,

- Intermediate: **Android Development**, **Shell**, javascript, html, css.

- **Version Control**: Bitbucket, Github, Gitlab

- **Testing Frameworks**: TestNG, JUnit, Mutation Testing

- In progress: **C++**, LaTeX

Experiences

Jan. 2021 – Present
Software Engineer at **W.W. Grainger, Inc**, Chicago, IL
- Successfully migrated over 900 nodes spanning over multiple clusters from a classic LB to a Network Load Balancer on AWS-EKS with zero downtime and zero outage.
- Applied Node Termination Handler on all nodes to mitigate immediate draining of pods during EKS Blue Green Deploy
- Automated SOX Controls in SAP systems using Python, Selenium and win32client thereby reducing over 1030 hours of manual work.
- Created dashboard for visualizing machine data using Splunk.

Aug. 2018 – Aug. 2020
Graduate Teaching Assistant at **Dept.of CS@UIUC**, Urbana, IL
- Created homework problems and wrote the testing server in python which was used by 900 students for submitting their homework.

Jan. 2021 – Present
Developer Intern at **Studio Labs LLC Inc**, Buffalo, NY
- Translated Photoshop Design of logos and special fonts to pixel perfect HTML, CSS & javacript on the Contrave website.
- Redesigned Shakeshack's website for the menu page to meet ADA compliance standards.

June. 2016 – Sept. 2016
PhoneLab at **University at Buffalo**, Buffalo, NY
- Create an android library to collect WifiScanResult objects to push hourly on the server.
- Created a node.js server to store json pushed by the phones on to a MongoDB database

Personal projects

Mar. 2020 – May 2020
Cryptocurrency *Multi-threaded, Blockchain, Distributed Systems, Python*
- Developed a cryptocurrency on a blockchain model that implemented a peer-to-peer protocol system to communicate transactions and blocks.
- Created a rule verification technique to ensure transactions are well-formed and implemented the Nakamoto consensus along with its longest chain rule

Nov. 2019 – Dec. 2019
QuestionRecommender *ML, Collaborative Filtering, Pandas, Scikit-Learn, Python*
- Built a recommender system using collaborative filtering to make personalized practice exams.
- Tested the model on CS105 students which resulted in an overall increase in the median scores

Nov. 2018 – Dec. 2018
WhatsTheMove *Android Java, Google Maps API, Google Places API*
- Built an android application that finds events in real-time using Google Maps and Google Places API that meet the user's search criteria such as time, budget, distance and type of activity.

Miscellaneous

Jan. 2017 - May 2018
Academic Assistant at **Campus Living, University at Buffalo**
- Assisted with academic support services and programming for the First Year Interest (FYI) Engineering Living Learning Community (LLC).
- Worked in a team of paraprofessional student leaders to create a sense of community and planned programs that met the needs of residents thereby helping them transition to University life.