

Arsh Khandelwal

khandelwal.arsh@gmail.com | 408.464.6852

EDUCATION

UNIVERSITY OF ILLINOIS
URBANA - CHAMPAIGN
BS IN COMPUTER SCIENCE
May 2019
Champaign, IL

LINKS

Github: arshk123
LinkedIn: /in/arshkhandelwal

SKILLS

EXPERIENCED

Python
Javascript (React, Node)
SQL
NoSQL
GraphQL
Data Warehouses
AWS Stack
TCP/IP Networking

FAMILIAR

Containers
Kafka
ElasticSearch

COURSEWORK

SOFTWARE

Applied Machine Learning
Algorithms
Compilers
Systems Programming
Computer Architecture
Data Structures
Database Systems
Web Development
UI/UX Design
Object Oriented Programming
Text Information Systems
Numerical Methods
Software Programming Studio
Distributed Systems

INVOLVEMENT

Founders Entrepreneurs
Engineering EXPO
NOBE Illinois

HONORS/AWARDS

Eagle Scout (July 2015)

EXPERIENCE

BALBIX | SOFTWARE ENGINEER - BACKEND

June 2019 – Present | San Jose, CA

- Managed inter-component scrum team and initiated efforts to document, design, and revamp API server architecture
- Architected streaming pipelines for metric warehousing from network aggregators
- Designed ETL batch processes as well as AWS Redshift data architecture for efficient, scalable time series data storage and retrieval
- Revamped in-stream data deduplication process, "Host Enumeration Logic", with asset geolocation tagging, subnet allocation, and dynamic host name deduplication
- Integrated GraphQL with API infrastructure for client facing microservices
- Realized 10x faster containerized code deployments by designing and building a CI/CD pipeline for backend services

NVIDIA | SOFTWARE ENGINEERING INTERN - FULL STACK

September 2018 – December 2018 | Santa Clara, CA

- Built web app store designed to automatically provision and deploy elastic beats to data platform for customers
- Automated user setup by implementing Access Management flow for the platform

PLATFORM9 | SOFTWARE ENGINEERING INTERN - SOFTWARE

May 2018 – August 2018 | Sunnyvale, CA

- Automated OpenStack failure analyses with log parsing, dependency graph visualization, and auto-healing, approximately halving failure response time
- Architected new testing frameworks that relied on OpenStack's newest resources reducing testbed deployment failures by 25%

BALBIX | SOFTWARE ENGINEERING INTERN - ML

May 2017 – August 2017 | San Jose, CA

- Built a labelling pipeline for the ML team's unsupervised learning models
- Utilized unsupervised clustering algorithms to reduce repeated similarities in datasets, halving the amount of data labelling required
- Realized 30% accuracy improvement in classification models

PROJECTS

TWITTER SENTIMENTS | PROGRAMMING STUDIO FINAL PROJECT

May 2019 | Developer

- A topic and sentiment analyzer to determine major news outlet reactions to President Trump's Tweets
- Developed a topic detection and sentiment analysis algorithms

HATTR.IO | WEB DEV FINAL PROJECT

December 2017 | Backend Developer

- An online social marketplace for sharing outfits and connecting to retailers
- Developed a MongoDB backend with Node.js web server

CRIME TRACKER | DATABASE SYSTEMS FINAL PROJECT

December 2017 | Full Stack Developer

- A crime reporting and tracking tool for the immediate Chicago area
- Designed and optimized a PostgreSQL database with over a million rows and developed a web application in React