Sharvil Katariya

⌂ scorpionhiccup.github.io | in sharvilkatariya | ⌨ scorpionhiccup

✉ sharvil.katariya@gmail.com | ☎ (+1) 425-905-2550 | ⚲ Bellevue, WA, USA

EDUCATION

STONY BROOK UNIVERSITY
MS in Computer Science
Grad. 2020 | Stony Brook, NY
Cum. GPA: 3.89/4.0
Teaching Assistant: Data Structures, NLP

IIIT HYDERABAD
BTech in Computer Science
Grad. 2017 | Hyderabad, India
Teaching Assistant: Software Engineering

SKILLS

Python · Java · C++ · Kotlin · Scala
Spark · Kafka · Android · Django
MySQL · DynamoDB · MongoDB
HTML5 · CSS3 · Javascript · PHP
AngularJS · React · AWS · Azure
Tensorflow · Keras · PyTorch

COURSEWORK

Database Systems
Analysis of Algorithms
Machine Learning (ML)
Natural Language Processing (NLP)
Computer Vision (CV)
Data Structures
Complexity & Advanced Algorithm
Operating Systems (OS)
Structured Systems Analysis & Design
Computer Networks
Cloud Computing
Artificial Intelligence (AI)
Information Retrieval & Extraction
Internet of Things (IOT)

PUBLICATIONS

INDICON CONFERENCE
A Privacy Preserving Approach to Generate Personalized Recommendation Based on Short Text Classification

ICACCI CONFERENCE
Machine Learning for Secure Device Personalization Using Blockchain.

ICOST CONFERENCE
A Personalized Health Recommendation System Based on Smartphone Calendar Events.

WORK EXPERIENCE & PROJECTS

HUSPY | Software Development Engineer (Backend Team)
May 2023 - Present | Dubai, UAE
Executed the successful launch of Agent Referrals feature for Huspy Agents App.

MICROSOFT | Software Development Engineer (Bing Ads)
March 2021 - Apr 2023 | Bellevue, WA
- Creation of interest-based user segments constituting to 40% User Growth and Click/Send ratio of more than 0.5 using Azure Infra for INTL Markets.
- Designed Privacy-preserving mechanism to incorporate feedback from all Microsoft services. Active member of ideation meetings, contributing to 3+ ideas based on the team's work.

MICROSOFT | Data Scientist Intern (Bing Native Ads)
May 2020 - Aug 2020 | Bellevue, WA
- Evaluated various model architectures to improve the Ad Click predictions by incorporating event time into sequential models.
- Secured 2nd place in Microsoft's C&AI Hack for Good hackathon for building a Microsoft Team's Tab Application to provide an interactive virtual class environment leveraging Azure's Cognitive Services and Bing APIs.

SAMSUNG | Senior Software Engineer (Data Intelligence)
Jun 2017 - Jul 2019 | Bengaluru, India
- Built Android app to run lightweight short text classification models (<1MB RAM) on Samsung devices. Implemented JNI layer to run native code on devices to run 20% faster.
- Spearheaded building a Generic Recommendation Platform, with a plug & play architecture for the addition of any new services to generate recommendations right off the bat.
- Published 3 Research Papers and filed 2 Patents and mentored interns.

VMWARE | Software Engineering Intern (Airwatch Team)
May 2016 – Jul 2016 | Bengaluru, India
- Developed a prototype to integrate Mobile Device Management agent across multiple Smart TV platforms like Android, Tizen, FireTV & WebOS.
- Created a web-based application using AngularJS, Node.js, Bower & Gulp
- Architected real-time processing using Apache Kafka and Spark Streaming to extract relevant information about meetings, using Outlook's REST APIs.

COMPILER FOR SUBSET OF C++ SYNTAX
- Modelled the lexical & syntax analyzer (parser) using Flex/Bison (Frontend)
- Abstract Syntax Tree Generation for the parsed program (Backend)
- Configured the compiler to generate LLVM IR for source program, using LLVM module and IR Builder Objects.

STOCK PRICE TREND PREDICTION
Forecast stock returns on the basis of past returns & company sentiments from news, social media by applying various supervised ML techniques (1.1K+ stars)

ACHIEVEMENTS

July 2020   Third Place   MTA Back on Track Hackathon
Jul 2018   Spot Award   Best Employee Award (Data Intelligence team)