

PIYUSH KIDAMBI

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EDUCATION

Stony Brook University - Masters in Computer Science

August 2019 - December 2020 (Expected)

Coursework : Distributed Systems, Analysis of Algorithms, Data Science, Human Computer Interaction, Visualization, Probability & Statistics for Data Scientists, Logic in Computer Science.

YCCE - Bachelor of Technology in Computer Technology

August 2012 - May 2016

Relevant Coursework - Data Structure, Operating Systems, Database Management Systems, Object Oriented Programming, Computer Networks, Computer Architecture & Organization, Design & Analysis of Algorithms.

SKILLS

- **Languages** : C++, Python, Java, C, Erlang, goLang, SQL, Javascript, Bash, ksh.
- **Web Technologies** : d3.js, HTML, Flask, CSS.
- **Cloud Service Technologies** : AWS (CloudWatch, Lambda, EC2, EMR, IAM, DynamoDB).

RELEVANT EXPERIENCE

Amazon Web Services (AWS), Seattle, Washington - SDE Intern

June 2020 - August 2020

- Designed and developed a framework to publish QuickSight Data Ingestion metrics on Customer's CloudWatch.
- Published 3 unique metrics with 2 dimensions on 400+ Customer Accounts each containing multiple datasets. So, a total of 30K+ metrics were published which helps the customer to monitor and set up alarms in case of any errors.
- Implemented Config scripts, Unit Tests and Integration Tests. [**Java, Spring, Mockito**]

Tata Consultancy Services - Software Developer

August 2016 - November 2018

Client - Ericsson R&D

- Built Simulations & implemented features for nodes (capable of creating, receiving & transmitting information) of Ericsson cell-phone tower hardware. [**Erlang**]
- Finding capabilities of different types of nodes how they behave when they run in parallel on a cluster. [**Python & Shell Scripting**]
- Automation of product release document which is released every sprint & automation of internal workflows. [**Python**]

Smart Interviews - Teaching Assistant

August 2018 - October 2018

- Problem solving using Algorithms & Data Structure TA : Responsible for clearing doubts of students in class & checking Coding Assignments. [**C, C++, Java, Python**]

Persistent Systems - Software Development Intern

October 2015 - April 2016

- Developed a Virtual Reality game using Unity 3D. Deployed it as android application running on Google Cardboard. [**Unity, C#**]

PROJECTS

- **Raft** - Implemented leader elections, Consensus & persistent state of Raft consensus Algorithm. [**goLang**]
- **Map-Reduce** - Implemented Map-Reduce library & worker failures from MapReduce paper [**goLang**].
- **Search Engine** - Developed an efficient retriever for Wikipedia dump which provided documents ranked by their relevance for queries. Field & phrase queries supported. [**C++**]
- **Shark2** - Implemented SHARK2 algorithm to decode a user input gesture & output the best decoded word from a dictionary containing 10,000 words. [**Python**]
- **Demand Forecasting & Time Series Analysis** of Retail Sales using ARIMA & LSTM Models [**Python**]
- Developed **Covid-19 Dashboard** by including visualization techniques like Choropleth maps, Time series forecasting, interactive bar charts involving brushing and linking, etc [**Python, d3.js, HTML, CSS**]
- **Linux Mini Terminal** - Implemented in C programming language using concepts of Fork, Exec & Pipes. [**C**]
- **E-Learning Portal** - Created E-Learning portal having 4 interfaces - Free user, Paid user, Staff, Admin. [**HTML, PHP, SQL, Javascript, CSS**]
- **Data Analysis and Hypothesis Testing- Covid19 + AQI** - Utilized multiple statistical tests and parametric/non-parametric inference techniques to identify valuable insights through the ever changing COVID-19 data, augmenting it with the Air Quality Index (AQI) from the State of Pennsylvania in the US.

ACHIEVEMENTS

- Qualified for ACM-ICPC regionals (India) in 2014 & 2015.
- Completed Foundations & Advanced Level Certification of Codechef Certified Data Structure & Algorithms Programme.
- Stood 1st in CodeQuest-2018 organized by TCS.
- Stood 2nd in Hack Defenders - 2019 (Oracle Coding Contest).
- Stood 9th in "Hack the Interviews - U.S. (2020)" organized by Hackerrank.
- Awards Received in TCS - Special Initiative Award & Learning Achievement Award.

EXTRA CURRICULAR

- Organized Inter-Collegiate Programming Contest as part of College Fest which was awarded as the Best Event.
- Completed Level-1 & Level-2 of Ethical Hacking.