

PIYUSH KIDAMBI

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EDUCATION

Stony Brook University - Masters in Computer Science

August 2019 - May 2021

Coursework : Distributed Systems, Analysis of Algorithms, Data Science, Human Computer Interaction, Visualization & Visual Analytics, 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, OOP, Computer Networks, Computer Architecture, Cloud Computing.

SKILLS

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

RELEVANT EXPERIENCE

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

June 2020 - August 2020

- Designed & developed a **framework** to publish QuickSight Data Ingestion **metrics** on Customer's CloudWatch.
- Implemented **3 unique metrics** with **2 dimensions** & Published 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.
- Wrote **Unit** and **Functional** Tests using Mockito in Java with **~90% code coverage**. [**Java, Spring, Mockito**]

Stony Brook University, NY, US - Teaching Assistant

August 2020 - December 2020

- Teaching Assistant for Computer Science Principles course under Prof. Michael Tashbook. Responsible for taking labs of 60+ students and evaluating assignments and exams. [**Python**]

Tata Consultancy Services - Software Developer

August 2016 - November 2018

Client - Ericsson R&D

- Built Simulations & implemented features for different types of nodes (capable of creating, receiving & transmitting information) of Ericsson. Upgraded Erlang OTP version on different Linux distros [**Erlang**]
- Researched into different nodes capabilities and reported a detailed analysis on their parallel execution in a cluster and on a single VM which increased the **efficiency** of machines by **~30%** and decreased the **crash rate** by **~80%** . [**Python & Shell Scripting**]
- Automation of product release document (saved **48+** developer hours every sprint) & automation of internal workflows. [**Python**]

Smart Interviews - Teaching Assistant

August 2018 - October 2018

- Problem solving using Algorithms & Data Structure : Responsible for clearing doubts of students in class & evaluating 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** - Reproduced Map-Reduce library & worker failure components 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**]
- **Time Series Analysis** - Performed data cleaning, visualization, exploratory data analysis and time series analysis using ARIMA and LSTM on Costello Ace retail store's data with MAPE of 0.95%. [**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 - Staff, Admin, Free & Paid user. [**HTML,PHP, SQL, Javascript, CSS**]

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