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PIYUSH KIDAMBI

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EDUCATION

Stony Brook,NY	Stony Brook University	Aug 2019- Dec 2020 (Expected)

Master's in Computer Science
- Relevant Coursework : Distributed Systems, Data Science, Human Computer Interaction , Analysis of Algorithms, Visualization, Probability & Statistics for Data Scientists.

Nagpur, MH	YCCE	Aug 2012 - May 2016

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

SKILLS

- C++, Python, Java, Erlang, goLang, JavaScript, Shell Scripting, SQL

RELEVANT EXPERIENCE

SDE Intern	Amazon Web Services (AWS) , Seattle WA	June 2020 - Aug 2020

- Designed and Developed a Framework to publish QuickSight Data Ingestion metrics on Customer's CloudWatch.
- Implemented Config scripts, Unit Tests and Integration Tests. **[Java, Spring, Mockito]**

Software Developer	Tata Consultancy Services	Aug 2016 - Nov 2018

Client - Ericsson R&D
- Built Simulations & implemented features for nodes (capable of creating, receiving & transmitting information) of Ericsson cellphone 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]**

Teaching Assistant	Smart Interviews	Aug 2018 - Oct 2018

- As problem solving using Algorithms & Data Structure TA, my responsibilities included clearing doubts of students in class & checking Coding Assignments.

Intern	Persistent Systems	Oct 2015 - Apr 2016

- Developed a Virtual Reality game using Unity 3D. Deployed it as android application running on Google Cardboard. This game has 2 types of characters - Terrorists & Counter Terrorists. Counter-Terrorists has to kill all terrorists to win the game.

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]**

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.