

Shivam Arora

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

M.S. IN SOFTWARE ENGINEERING
Expected March 2020 | GPA: 3.85/4.0

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

BTECH. IN COMPUTER SCIENCE
Grad. June 2018 | Delhi, India
Agg Percentage: 73.6

ST.COLUMBA'S SCHOOL

Grad. May 2014 | Delhi, India

LINKS

Github:// [shivamarr96](#)

LinkedIn:// [shivamarr96](#)

COURSEWORK

GRADUATE

Algorithms Design and Analysis
High Performance Architecture
Machine Learning
Statistical NLP
Distributed Systems Middleware

UNDERGRADUATE

Object Oriented Programming
Data Structures in C
Java Programming
Database Management Systems

AREAS OF INTEREST

• Software Development • Machine Learning • Cloud Computing

SKILLS

PROGRAMMING LANGUAGES

• Java • C/C++ • Python
• HTML • JavaScript • \LaTeX

DATABASES

• MSSQL • Oracle
• MongoDB

FRAMEWORKS

• TensorFlow • PyTorch
• React • BeautifulSoup
• Flask • Scikit-learn
• Pandas • NumPy
• OpenCV • NLTK

OPERATING SYSTEMS

• Mac OSX • Windows • Linux

EXPERIENCE

VISA INC. | SOFTWARE ENGINEERING INTERN

June 2019 – September 2019 | Foster City, CA

- Worked on automating the reporting of the Identity and Access Management team metrics using **Talend** and **Grafana**.

UNIVERSITY OF CALIFORNIA, IRVINE | TEACHING ASSISTANT

January 2019 – June 2019, September 2019 - Present | Irvine, CA

- Assisting the faculty members by conducting discussion, laboratory, and quiz sections for the undergraduate courses: **MultiPlayer Game Systems**, **Software Testing**, **Senior Design Project**.

MAROON.AI | DATA SCIENCE INTERN

April 2017 – August 2017 | Noida, India

- Using **Beautiful Soup** and **Selenium**, extracted data from various online databases such as - Sec Edgar Company Filings, Bloomberg Database etc.
- Performed **hyperparameter tuning** of the **Random Forest** model built for clients to predict prospective customers.

HCL TECHNOLOGIES | SOFTWARE ENGINEERING INTERN

July 2016 – August 2016 | Noida, India

- Designed and developed a sales management system as a standalone application using **JDBC**, **SWING** in Java and **MySQL**.

ACADEMIC PROJECTS

DETECTING EMERGENCY SITUATIONS USING CNN | U.C. IRVINE

April 2019 – June 2019 | Irvine, CA

- Built an event-based escalation tool for identifying emergencies using **Convolutional Neural Networks(CNN)** on a **Raspberry Pi**.

TO AGREE, OR NOT TO AGREE | U.C. IRVINE

January 2019 – March 2019 | Irvine, CA

- Deobfuscation of privacy policies and terms of service agreements by training **Google's BERT classifier** to facilitate **consumer data protection**.

I'MTHEDOC | GGSIPU

January 2018 - May 2018 | New Delhi, India

- Built a web-application which aids self-diagnosis for individuals worried that something might be amiss. Features:- **Jaundice Detection**, **Pure Tone Audiometry(PTA) test**, **Visual Pulse Monitoring**

PUBLICATIONS

IOT ARCHITECTURE FOR ENERGY CONSERVATION OF SMART BUILDINGS | PART OF SPRINGER BOOK "ENERGY CONSERVATION FOR IoT DEVICES: CONCEPTS, PARADIGMS AND SOLUTIONS" [\[PDF\]](#)

- The book chapter delineates the various **motivations**, **challenges**, and **solutions** for transforming the existing architectures into their energy-efficient counterparts.

ECC BASED ENCRYPTION SCHEME FOR SECURING THE CLOUD

| PRESENTED AT THE 3RD IEEE INTERNATIONAL CONFERENCE ON COLLABORATION AND INTERNET COMPUTING, SAN JOSE, 2017 [\[PDF\]](#)

- The scheme is **lightweight**, specifically tailored for securing **cloud-based storage facilities** and is faster than the RSA algorithm by at least a factor of 10.