Swarali Surana

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OBJECTIVE

To pursue graduate studies in the field of Computer Science

EDUCATION

Bachelor of Engineering in Computers **Aug' 14 – June' 18**
Maharashtra Institute of Technology, Pune
Affiliated to Savitribai Phule Pune University (formerly known as University of Pune), India

Year	Marks	Out Of	Percentage	GPA
First Year	1027	1400	73.36%	**3.45**
Second Year	1159	1500	77.27%	**3.81**
Third Year	1172	1500	78.13%	**4.00**
Fourth Year	1200	1500	80.00%	**4.00**

Average GPA: **3.82** / 4.00

WORK EXPERIENCE

1. **Senior Software Engineer,** Persistent Systems Ltd. **Oct' 20 – Present**
   - IBM Netezza on Cloud project: cloud native deployment for Netezza Performance Server (NPS) database engine.
   - *Responsibilities*: Feature development for no downtime scaling of storage, writing interfaces for communication between NPS and influxDB, writing REST handlers for dashboard monitoring
   - *Recognition*: **recipient of one "High Five" individual award**

2. **Software Engineer,** Persistent Systems Ltd. **July' 18 – Sept' 20**
   - IBM Netezza Project: design and deploy high-performance data warehousing appliances and advanced analytics applications in enterprises for uses including Business Intelligence and Predictive Analysis
   - *Responsibilities*: carry out root cause analysis and provide fixes for resolving customer escalations, perform feature enhancements, add new features to the IBM Netezza product
   - *Recognition*: **recipient of two "High Five" individual awards** (among the five such awards that were given in the team of 30 software engineers over a period of past one year)

TECHNICAL SKILLS

Programming/Scripting: C, C++, Python, Shell, Perl, MySQL, PostgreSQL, SQLite3, Solidity, Docker, Kubernetes, Openshift, golang, REST framework, InfluxDB
Operating System: Ubuntu, RHEL, Windows

MAJOR PROJECTS

1. **Blockchain for Tangible Asset Management** **July' 17 – April' 18**
   - *Goal*: to design, develop and demonstrate a service-engine using blockchain technology for Land Property Management. This was final year project sponsored by Persistent Systems Ltd.
   - *Salient features include:*
     - support for property transactions like registration, sale, purchase, mortgage
     - chain of custody
     - property auctions

     All were implemented through Smart Contracts.
   - *Technology*: Ethereum, Solidity, HTML, CSS, JavaScript, Node.js, and Web3 API
   - *Accolades*: **the Best Project Award in two inter-collegiate National level symposia**

2. **Video Stabilization for Unmanned Aerial Vehicles (UAVs) in Real-time** **Jan' 17 – April' 17**
   - *Goal*: to stabilize the jittery video captured by UAVs in real time. This was a project offered by India's Ministry of Defence as part of first Smart India Hackathon (that was World's biggest ever hackathon)
   - *Technology*: C++, OpenCV, CUDA, Qt Creator
   - *Accolades*: **awarded the First Runners-Up prize among about sixty selected competing entries**

MAJOR FORUMS

- **Persistent Computing Institute's Winter School on Data and Functional Programming, December' 16**
  - Purpose of the school was to re-emphasize the relation between Math and Computing
  - Learnt the integration of theoretical math concepts of λ-calculus in functional programming language 'Gofer'
  - Built a compiler and interpreter for functional programming language 'Gofer' in 'Gofer'
  - **Secured an 'A' grade** with 5 other students out of 40 at the end of the school
  - Owing to my performance in school, **got an immediate pre-placement offer from Persistent Systems Ltd.**

- Microsoft India Academic Research Summit**, 24-25 January 2017**
  - The purpose of this research summit was to share ideas and explore challenges faced around using technology for societal good.
  - The agenda included keynotes and plenary talk from distinguished researchers across a variety of areas.
  - Eminent Researchers like Jaime Teevan (Chief Scientist, Microsoft Research), Nutan Limaye (Professor, IIT Bombay), and Srujana Merugu (PhD, University of Texas at Austin) were part of the ACM-W (ACM-Women's Initiative to encourage the participation of women in computing) panel discussion. In this, they talked about their journey and research work which was very inspiring.
  - **I was one of the only four undergrad students selected for the Research Summit.**

- **ACM India Summer School on Information Security and Forensics (for Women), 29 May – 17 June' 17**
  - Very good blend of theory and hands-on learning with diverse topics covered over 100+ school hours
    - Blockchain
    - Cryptography and Number theory
    - Data Privacy
    - Digital Forensics Fundamentals
    - Mathematical Models of Computer Security
    - Mutual Trust Mechanisms
    - Network and Internet Security
    - Software and Application Security
  - **Only 40 students were selected from about 200 candidates who had applied from all over India.** Selection was based on the applicant's academic performance and Statement of Purpose for attending the school.

MISCELLANEOUS

- All India Rank 437 (among > 100,000 students) in Graduate Aptitude Test in Engineering (GATE), 2019
- Part of the Editorial team for technical newsletter of MIT Computer Users Group, 2015-17
- Member of the college's cultural group and part of play called 'Mishmi' that won accolades in prestigious Firodiya Karandak (most coveted intercollegiate performing arts competition in Pune city), 2014-15
- Awards in interschool debate and elocution competitions, 2010-12
- Secured 'A' grade (among about 200,000 students) in State Level drawing examinations, 2007-08
- Trained in Hindustani classical music for 7 years, 2002-09