

YASH SOLANKI

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EDUCATION

University of Southern California, Viterbi School of Engineering Los Angeles, USA
Aug 2021-May 2023
Master of Science in Computer Science (Computer Networks) (GPA 3.55/4)
Relevant Coursework: CSCI551 Computer Networks, CSCI402 Operating Systems, CSCI571 Web Technologies, CSCI570 Analysis of Algorithms, CSCI530 Secure Systems

Pandit Deendayal Petroleum University, School of Technology Gandhinagar, India
Aug 2016-Jun 2020
Bachelor of Technology in Computer Engineering (CGPA 9.48/10)

TECHNICAL SKILLS

Frameworks	Angular, React, Express JS, Bootstrap, Node JS, Android SDK, Flask, REST API, Ethereum, Keras, Scikit-learn
Technologies	Amazon Web Services, Google Cloud Platform, Git, Docker, Linux, Blockchain, Kibana, OpenCV
Languages	C, C++, x86 Assembly, Python, Java, JavaScript, TypeScript, HTML5, Solidity, Logstash
Databases	Mongo DB, Dynamo DB, Redis, MySQL, Elasticsearch, Memcached

EXPERIENCE

Information Security Risk Analyst Los Angeles, USA
Nov 2021-Present
Office of Chief Information Security Officer, ITS, USC

- Designed an architecture that aggregates 6 data sources into a single data lake on AWS for risk assessment and visualization
- Conducted series of 6-month phishing campaigns for 25 USC departments resulting to 55% decrease in phishing failure rate
- Presented 5 Year Risk assessment and mitigation strategy to chief Information security officer and got it approved

Software Developer (Network & Security) Ahmedabad, India
Nov 2020-May 2021
SharkStriker Inc.

- Built security agent installers responsible for automating security log pipelines on Windows, Debian, Redhat and MacOS systems
- Integrated logs data from 12 Endpoint Management Platforms, Firewalls & SIEM systems to a standardized Elastic schema
- Developed 7 log parsers with Python and Logstash for organization of the firewall and endpoint security logs on Kibana

PROJECTS & PUBLICATIONS

Weenix Operating System | C, x86 Assembly, Linux

- Developed a UNIX based monolithic single processor operating system. Implemented kernel to support user space programs in C
- Implemented several modern operating system features like processes, threads, virtual file-system and virtual memory, etc.
- Created shadow objects to allow copy-on-write functionality in fork() system calls making the system fast and efficient
- Wrote all OS system calls including but not limited to fork(), mmap(), brk(), read(), write(), open(), close() etc.

Stockker - Web and Android Application | Angular, Express JS, Flask, Android Studio

- Developed real time stock trading platform supporting portfolio, watchlist, stock trading, trade data visualization, etc. features
- Used Finnhub stock service to create REST API with Express and used Local Storage to maintain users' watchlist and portfolio data
- Deployed this Full Stack Responsive Node-Angular web application on Google Cloud Platform
- Implemented a corresponding Android Application for this platform with similar state management and gesture based UI features

Blockchain Based Drug Regulation System | React JS, Ethereum, Solidity, Web3

- Designed a de-centralized application (DApp) for drug supply chain to regulate unauthorized access and counterfeiting of drugs
- Implemented Smart Contracts with Solidity on Ethereum blockchain supported by responsive React frontend web application
- Research Paper: Security, Privacy and Data Analytics, DOI: 10.1007/978-981-16-9089-1_23 [\[Link\]](#)

Tamperproof Voting System | Vue JS, Python, IOT

- Designed a tamper-proof voting ecosystem using blockchain and IOT. Implemented distributed cloud-based model for privacy
- Published a product patent under Indian Patent Office in the Official Gazette of India for the Blockchain Based Voting Ecosystem

HONORS & AWARDS

- Selected among top 5 finalists out of 100+ teams nationally in Smart India Hackathon 2019 for the "Self-Learning Chatbot"
- Received project funding grant worth ₹ 1.5 lakh (\$ 2000) from our university for IOT-ML based project - "Smart Parking System"
- Published 5 Research Papers and 1 Product Patent in domains like Blockchain, Machine Learning, Computer Vision, IOT, etc.
- Received "Best Paper Award" at an international conference for the project "Blockchain-based Drug Regulation System"

LEADERSHIP

- Led a team of 52 members as the President of Association of Indian Students. Organized academic and cultural events of India
- Elected as the President of Computer Society of India. Managed a team of 32 students and coordinated execution of workshops, tech-talks, and hackathons to enrich computer science culture at the university