

DEEPI SAPRU

914 Greek Row Dr., Apt 236, Arlington, TX 76013 | dsapru@hotmail.com | 682-553-5840 | www.linkedin.com/in/deepitsapru

EDUCATION

The University of Texas at Arlington, Arlington, TX

Master of Science, Computer Science, 2017-2019 (Expected) GPA 3.6

Selected Coursework: Cloud Computing, Data Mining, Design & Analysis of Algorithms, Distributed Systems, Object Oriented Business Programming, Secure Programming, Software Testing, Web Data Management.

Visvesvaraya Technological University, Karnataka, India

Bachelor of Engineering, Computer Science, 2013-2017 GPA 3.9

TECHNICAL SKILLS

Programming: C++, Java, Python, R, JavaScript, Perl, SQL/PLSQL.
Frameworks: J2EE, SOAP, REST, AngularJS, NodeJS, D3js, Flask.
Databases: Oracle, MySQL, Redis, MongoDB, SQLite3.
Web Technologies: jQuery, Ajax, XML, HTML & CSS, PHP, Bootstrap.
Cloud Computing: Amazon Web Services, Azure, Google Cloud, IBM Cloud.
Tools: Android Studio, Git, IntelliJ, Docker, OpenGL, Wireshark.
Operating Systems: Fedora, Ubuntu, CentOS, OS X, Windows.

RELEVANT WORK EXPERIENCE

Software Engineering Intern

Oil & Natural Gas Corporation, Navi Mumbai, India.

May 2016 – Jul 2016

- Designed OpenGL application, capturing shallow subsoil structure. Implemented different algorithms for accurate data collection and evaluated different libraries to optimize performance. Drafted the reservoir characterization by integrating feature processing. Surveyed the rasterization and filtering on the post-plot renders of the oil-well.

Product Engineer

USHVA, Mumbai, India.

Dec 2015 – Jun 2016

- Developed the Android application as a part of home automation equipment. Enabling remote controlling of commercial electronic devices. Reimplemented the user interface and business logic with updated settings and workflow. Participated in design reviews and collaborated with quality assurance for testing. Performed accessibility and localization updates and fixed bugs throughout the codebase. Reimplemented the UI for the existing webpage for its next release. Implemented new features including an updated feed. Integrated the application with internal web APIs for data retrieval. Increased responsiveness and decreased loading time.

SE Research Intern

TATA Centre for Technology & Design, IIT Bombay, India.

Jan 2016 – Mar 2016

- Conducted research work on Multipath Transmission Control Protocol (MPTCP) primarily focused on literature survey, under the guidance of a Professor and his Ph.D. student. Witnessed, and validated the possible Linux-kernel implementation. Utilized Wireshark as a tool to troubleshoot and inspect the network and the protocol at play.

PROJECTS

- Amazon Web Services:** User Authentication, Auto-scaling, finding K-Nearest cities application.
- Microsoft Azure:** Instagram-clone application. Advising/Student platform. Data visualization in R with D3js.
- Google App Engine:** Dropbox- like application. Storage Management, Encryption.
- IBM Bluemix Cloud:** Encryption, File Storage and Version Control System.
- Task Scheduler using Red-Black Trees:** Implementation of Completely Fair Scheduler(CFS) using Tree Map in Java.
- Android Inventory Tracker/USHVA:** Application to track the inventory live, provide client with real time update.
- Client/Server distributed applications:** Thesaurus, SOAP & REST weather client applications.
- Animal Health-Center Website:** Refined the webpages utilizing MVC web-frameworks for JS & PHP.
- Web App Security Vulnerabilities:** Utilized open source code analysis tools to find OWASP bugs and vulnerabilities in web apps.
- University Advising System:** Online advising system simulation in Java using RPC, MQ allowing the students to enroll/drop courses.

MEMBERSHIPS/ACTIVITIES

- Google Students' Club:** Android Development, Deployment. Facilitator.
- IEEE:** Coordinator. Organizer & Facilitator for several educational & technical events.
- NEBULA:** Senior Editor for the college magazine. Advisory board member.