

Varnit Sah

Curriculum vitae

WORK EXPERIENCE

APRIL 2016 – MAY 2017

Information Technology Services, USC

Student Software Developer

Worked as a part of a scrum team to develop in house applications for USC using AngularJS for client side interactions and Node.js for the back-end service, automating post-development tasks using Gulp.js, deployment using Docker and automation of build pipeline using Jenkins. Assisted in the creation of Data flow diagrams of USC's undocumented financial system.

- **USC Account Translation Tool** : Designed, developed and maintained an online service for viewing and editing financial records. Evaluating load time of records after initial request, yielded an average load time of 250ms.

- **ITS Integration Dashboard** : Designed and developed a dashboard application that presents JSON data in a graphical interface. Reviewed the code and identified redundant HTTP calls leading to a 60% reduction in unnecessary data fetches.

JANUARY 2015 – MAY 2015

e-Infochips Training and Research Academy

Software Development Intern

Developed a Text Prediction and Spell Correction Library in C for use with the Devanagiri script. Evaluated the performance of Trie and Ternary Tree for use with low memory devices. Improved the performance of spell correction for the Devanagiri script by modifying the Damerau-Levenshtein distance algorithm. Modified algorithm resulted in better spell checks by 10-15% in relevant cases.

PROJECTS

Voting application: An application made with a Test Driven Development approach for organizing live votes using React, Redux, Immutable.js and Sockets. Users vote from two choices and the moderator can keep track of the votes in real time.

Autocompletion & Spellcheck tool using SOLR: Developed an Angular-Node application which queries a snapshot of a news website to receive the most relevant results from the SOLR platform. HTTP calls to SOLR are made via a node.js server.

Image Steganography: Developed a simple windows application in C# which can store snippets of text inside an image.

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Weenix: Collaborated with four members to implement Processes and Threads, Virtual File System and Virtual Memory components of the Weenix Operating System.

Speech Control: A C# desktop software with text to speech and speech recognition capabilities (Microsoft Speech API).

Weather Forecast : An angular application which fetches the forecast for a particular city. Weather data is fetched by a call to the openWeathermap API.

SKILLS

LANGUAGES	C, Java, C#, HTML, CSS, Javascript, Node.js
FRAMEWORKS	Bootstrap, AngularJS 1.5, Express, Mocha
LIBRARIES	React, JQuery, Immutable.js
DATABASES	MySQL, MongoDB
TOOLS & TECH	Git, Hadoop, Jenkins, Docker, SOLR, gulp.js, AWS, Google Cloud, Linux
OTHER	Flow charts, UML, Redux

CERTIFICATION

F105-3539 Microsoft Technology Associate - Database Fundamentals

EDUCATION

2015 – 2017 **University of Southern California**
MASTER OF COMPUTER SCIENCE

2011 – 2015 **Charotar University of Science and Technology**
BACHELOR OF TECHNOLOGY