

VIBHUTI TRIPATHI

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OBJECTIVE

Software Engineering Student at Arizona State University possessing 1.5 years of industry experience, seeking full time opportunities beginning May 2018.

EDUCATION

Master of Science- Software Engineering **May 2018**
Arizona State University, Tempe, Arizona **G.P.A – 3.40/4.0**

Bachelor of Technology, Computer Science **May 2016**
G.B.Pant University of Agriculture and Technology **GPA – 3.78/4.0**

Relevant Courses: Advanced Data Structures and Algorithms, Software Enterprise-Inception and Elaboration, Mobile Systems, Distributed Software Development, Distributed and Parallel Database Systems, Semantic Web, Software Verification, Validation and Testing, Database Management Systems, Foundations of Machine Learning

PROFESSIONAL WORK EXPERIENCE

- Web Application Developer at Department of Knowledge, Enterprise and Development** (www.istf.asu.edu) **June 2017-Present**
- Developing User Interface using **HTML5, Twitter Bootstrap, CSS, JavaScript and AJAX**. Updating and adding dynamic content using Angular JS and Python Selenium Webdriver, writing **REST APIs** and designing the database schema.
 - Developing new web-based modules using **Ruby, Rails** and developing Data Driven Applications using **SQLAlchemy** and **Python Flask Framework**.
- Web Developer at Arizona State University** (www.herbergerinstitute.asu.edu) **Jan 2017-May 2017**
- Designed and implemented dynamic Web content and Web-server application using **MS-SQL, HTML, XML, AJAX**, Web services, and **Simple Object Access Protocol (SOAP)**.
 - Developed the User Interface of commons.hida.asu.edu on SharePoint using HTML5, CSS, Bootstrap and Vanilla JavaScript.
- Web Application Developer, Routofy Pvt Ltd** (<https://routofy.com>) **April 2015-May 2016**
- Worked as a Web Developer and Developed an Application for Routofy Pvt Ltd for planning travel itinerary. Programmed with robust code using **HTML5, Bootstrap** and **JQuery** and managed the SQL database accessed by the Location API.
 - Employed principles of linked data integration for data gathering and determining the cheapest possible route to a destination.

ACADEMIC PROJECTS

- Trauma Activation Algorithm** **Sept 2017-May 2018**
- Develop and Design an evidence based Machine Learning Algorithm that optimizes ED resources for level I pediatric trauma activation.
 - Perform Segmentation Analysis to identify resource strata and employing big data tools to identify characteristics of patients.
 - Generate a model for trauma activation and analyze accuracy using libraries like **scikit-learn, pandas, numpy** etc.
- Geospatial Distributed Computing using HDFS and Apache Spark** **Sept 2017-Dec 2017**
- Perform geospatial database operations on large datasets stored in distributed systems using **Hadoop, Apache Spark, Scala, GeoSpark library** in Linux.
 - Perform cluster analysis (efficiency, memory usage and CPU usage for each node) using **Ganglia** and Implemented an algorithm for **Spatial-Temporal hotspot** analysis that included determining the top 50 hotspots for taxi pickups in New York city in January 2015 using **Getis- Ord statistics**
- Nihao Language and Compiler** **Jan 2017-May 2017**
- Developed a programming language Nihao, devised its grammar (EBNF), Intermediate Code Generation (Java), Runtime (Python) and the Compiler using ANTLR (Lexical and Syntactic analysis).
 - Developed a Stack Machine Model and Implemented Arithmetic and Relational Operators, Decision Control and Looping constructs.
- Cancer Prognosis and Prediction** **March 2017-May 2017**
- Developed prediction algorithm using Standard Scalar, PCA, Logistic Regression, Sklearn Pipeline and k fold cross validation, achieving the accuracy of 97%
 - Employed principles of Predictive Modelling and analyzed accuracy using libraries like **scikit-learn, pandas, numpy and matplotlib**.
- Data Driven Semantic Web Application: Java Application** **Aug 2016- Dec 2016**
- Developed a **Java** Application for generating the grocery store with groceries at least price and successfully deployed it on the Fuseki server.
 - Implemented Walmart API and Google API for obtaining grocery and location datasets and Successfully Scraped Data using **Selenium WebDriver** and **Beautiful Soup** and Refined Data and generated RDF Triples using Google Refine.
- Weather Lite: Voice Controlled Android Application** **Aug 2016- Dec 2016**
- Developed an **Android Application** for weather data generation on voice commands.
 - Implemented **Text to Speech** and **OpenWeatherMap API, Google Map API V2** and parsed JSON data and Implemented Location Manager to show exact location on Google Maps.

TECHNICAL SKILLS

- Client-Side Languages:** HTML5, CSS, Twitter Bootstrap, Vanilla JS, Angular JS, JQuery, AJAX, XML, XSLT, XSD, SOAP, REST, JSON
- Server-Side Languages:** Python, Java, Swift, Scala, C++, Android
- Database Technologies:** Relational (MySQL, SQL/PLSQL, PostgreSQL, SQLAlchemy), MongoDB, Hadoop.
- Content Management Systems:** Drupal and Joomla
- Frameworks:** Flask for Web Development, Apache Spark (Geo-Spark Library)
- Mobile Development:** Android and Swift for iOS Development
- Libraries:** Scipy, Numpy, Matplotlib, Pandas, Sklearn
- Version Control:** GIT, Team Foundation Server