

BHANU PREETI ANAND

480-658-8049 • bhanupreeti96@gmail.com • [linkedin.com/in/bhanupreetianand](https://www.linkedin.com/in/bhanupreetianand) • github.com/preeti297

EDUCATION

Master of Computer Science
Arizona State University, Tempe, AZ

May 2021
GPA – 3.94

TECHNICAL SKILLS

- **Expertise:** Java, Python, SQL, C++, C, JavaScript, jQuery, React JS, HTML5, PHP, CSS, Angular 4, AJAX, JSON
- **Database/Bigdata:** Oracle, MYSQL, PostgreSQL, MongoDB, Apache Hadoop, Spark
- **Tools and Framework:** Oracle Apex, MATLAB, Android, Spring MVC, TFS, Git, Flask, Eclipse, Apache
- **Areas of Interests:** Algorithms and Data Structures, Databases and Implementation, Machine Learning and Data Mining

PROFESSIONAL EXPERIENCE

Hexagon AB, Hyderabad, India: Software Developer

Aug 2017 - Jul 2019

- Designed and developed the requisition module of Intergraph Smart® Materials product (integration of material and subcontracting management solution) in a fast-paced agile environment, which provided a major cost cutdown of 2% to stakeholder's project
- Enhanced the user interface in Oracle Apex, JavaScript, and jQuery, to create an intuitive process from 14 disintegrated workflows, for seamless generation of requisitions (purchase or inquiry orders)
- Developed and optimized stored procedures, queries, and functions in PL/SQL, which improved response time by 5% to display requisitions data for millions of material codes
- Took an initiative to automate scripts generation and built reports on discrepancies in code, which violated code guidelines using Oracle Apex framework, to reduce integration failures
- Continuously integrated and deployed the web application into different environments for sprint reviews and testing purpose using Azure DevOps
- Collaborated with product managers, designers, QA, and other engineers to design and implement prototypes of business workflows
- Demonstrated various new product features to stakeholders and received positive reviews for easy user interface as a part of sprint reviews
- Won "PAT ON BACK" award Q1 and Q4 2018 for working on challenging problems and being an excellent team player

Arizona State University, Tempe, AZ: Computer Science Tutor

Sep 2019 – Present

- Help undergraduate engineering students succeed in understanding essential concepts in Java, C++, Python, Data Structures and Software Engineering

ACADEMIC PROJECTS

Automatic Image Captioning

Jun 2020 - Aug 2020

- Generated captions for 2000 images automatically using the Flickr8k Dataset and Encoder-Decoder (CNN-RNN) deep learning framework in Keras

ASU, Implementation of Google Bigtable-like DBMS

Jan 2020 – Apr 2020

- Developed insert and query operator, in Java, to perform a batch insertion and query of more than 50,000 records in five different storage types
- Implemented intensive data-preparation operators like rowjoin and rowsort to join and sort the rows of maps respectively

ASU, Geospatial Analysis using Apache Spark

Jan 2020 – Apr 2020

- Applied spatial statistics to a large-scale spatio-temporal data of NYC taxi-trip (3GB data), to identify statistically significant spatial hot spots using Apache Spark and AWS

ASU, Sound Based Two Factor Authentication System

Aug 2019 - Nov 2019

- Developed a sound similarity algorithm in Python, to determine the proximity of the devices in a sound based two-factor authentication system, with an average accuracy of 96.67%
- Created a custom API to record audio in a web application by using the JavaScript native web API's and designed background mobile application to record the audio in android