

SANDEEP CHINDALUR BALAJI

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EDUCATION

- **Arizona State University** *Tempe, Arizona*
Master's in Computer Science GPA: 3.67/4
May 2020
Coursework: Distributed Database Systems, Distributed Software Development, Foundation of Algorithms, Software Security.
- **BMS College of Engineering** *Bangalore, India*
B.E in Electronics and Communications GPA: 8.05/10
May 2015
Coursework: Data Structures, Object-Oriented Programming, Computer Networks, Operating Systems, Signals & Systems.

TECHNICAL SKILLS

- **Languages and Libraries:** python, C, C++, Java, Linux, Shell scripting, Data Structures, SQL, PL/SQL, PHP, Go
- **Web Technologies:** Flask, Django, SpringBoot, Hibernate, Angular, Node.js, JavaScript, AJAX, jQuery
- **Databases:** MongoDB, MySQL, PostgreSQL, Oracle, Redis, Amazon DynamoDB
- **Tools/Framework:** Nginx, Apache, GIT, Docker, Kubernetes, Google Cloud, AWS, Jenkins, JIRA, Elastic search, Ansible, unit-testing, CI/CD, Agile/Scrum

WORK EXPERIENCE

- Software Engineer | Arizona State University** *May 2019 – Present | Tempe, Arizona*
 - Developed web application for hosting Mathematics quizzes which are used by 2500 students.
 - Implemented a recovery strategy for failures in Math web application which decreased downtime by 80%.
 - Troubleshooting applications for critical bugs and maintain backend architecture.
 - **Skills: python, Shell scripting, Linux, Docker, Kubernetes, Ansible, PHP, SQL**
- Software Engineer | gnani.ai (Startup)** *Sep 2017 – Jul 2018 | Bangalore, India*
 - Designed applications for parallel execution of text cleaning on a corpus of over 1 Billion lines.
 - Manage, improve and monitor cloud infrastructure and applications on AWS & GCloud.
 - Designed architecture for the speech decoding application that serves over a million users per day.
 - Developed REST APIs for speech decoding, diarization using Flask and released public API.
 - **Skills: python, C++, Shell scripting, Linux, Flask, Docker, Kubernetes, Ansible, SQL**
- Software Engineer | Tata Consultancy Services** *Dec 2015 – Aug 2017 | Bangalore, India*
 - Implemented Goods & Services Tax in Oracle Financial application by developing Spring boot APIs.
 - Developed stored procedures for defragmentation of all schemas in an Oracle database on 800 GB data.
 - Redesigned the application for CI & finance data flow which reduced the load by 30%.
 - **Skills: python, Java, SpringBoot, Hibernate, Oracle SQL, PL/SQL, Shell scripting**
- Academic Tutor | Arizona State University** *Oct 2018 – Apr 2019 | Tempe, Arizona*
 - Responsible for tutoring under-graduates on basic key concepts of computer science.
 - Tutor for Data Structures, Algorithms, Principles of programming language courses.

PROJECT WORK

- **Secure Banking Application** *Jan 2019 – May 2019 | Tempe, Arizona*
 - Built a full-stack bank application using Angular.js, SpringBoot, and Hibernate that focused on implementing various security features.
- **Attribute Mining & Search Relevance Prediction** *Jan 2019 – May 2019 | Tempe, Arizona*
 - Prediction of the relevancy score of a search query and product description using word2vec, fuzzy string extraction and attribution mining.
- **Traffic Rules Learning using Deep-Q networks** *Jan 2019 – May 2019 | Tempe, Arizona*
 - Training an autonomous vehicle for learning traffic rules using Q-learning and neural networks. Simulated on the SUMO traffic environment.
- **Sudoku Solver - Q learning** *Oct 2017 – Nov 2017 | Bangalore, India*
 - Basic Sudoku solver using Reinforcement learning written in python. Built as a personal project using Keras, pandas and numpy packages.
 - Solves a medium level Sudoku within a running time of 30 seconds and a low level in less than a second.

AWARDS

- **Sunhacks '18 - Best IoT hack & 2nd place** *Nov 2018 | Tempe, Arizona*
Computer Vision application for fall detection of elderly and emergency alert which saves \$50/month.
- **Inferno Hacks '18 - 2nd place** *Nov 2018 | Tempe, Arizona*
Google assistant application to train employees. Uses spaced repetition & vocalization to improve recall by 92%.
- **Hack Arizona '19 - 2nd place in 'AI in Recruitment' category** *Jan 2019 | Tucson, Arizona*
A platform for recruiters and applicants that predicts the probability of getting hired/becoming a top performer.