SANDEEP CHINDALUR BALAJI

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EDUCATION

- **Arizona State University** *Tempe, Arizona*
  Master's in Computer Science GPA: 3.67/4 *Present*
  Coursework: Distributed Database Systems, Distributed Software Development, Algorithms, Distributed Operating Systems.
- **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, Java, C, C++, Linux, Shell scripting, Data Structures, SQL, PL/SQL, PHP
- **Web Technologies:** Flask, Django, SpringBoot, Hibernate, AngularJS, Node.js, JavaScript, AJAX, jQuery, RESTful
- **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.