**ASHWIN Balachandran**

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**EDUCATION**

University of CALIFORNIA, IRVINE, Irvine, California **December 2019**

**Master of Computer Science,** GPA: 3.54

**Courses:** Operating Systems, Introduction to Artificial Intelligence, Computer Architecture, Computer Security, Advanced Programming and Problem Solving and Introduction to Internet of Things, Data Structures, Fundamentals of Algorithms, Machine Learning and Data Mining

Manipal Institute of Technology, Manipal, Karnataka, India **May 2016**

**B. Tech, Information Technology,** CGPA: 7.61/10

**SKILLS**

Programming Languages: Java, JavaScript, TypeScript C, C++, Python (Matplotlib, NumPy), C#, Struts, Hibernate, Spring

Databases/Build: Oracle, SQL, MySQL, Pentaho (Kettle Project), Apache Tomcat & Maven, Bash scripting

Operating Systems: Windows, Mac OS, Linux/Unix (RHEL, Solaris, CentOS, Ubuntu, Mint, Fedora, Manjaro, xv6)

Dev Ops: Mercurial, Tortoise SVN, JIRA, Crucible, Git, Teamcity, Cypress

**EXPERIENCE**

KAREO, Irvine, California **June,2019 – September,2019**

**Software Engineer Intern,** Delivery Engineering Squad

* Worked on the CI/CD pipeline used for maintaining and deploying projects builds on servers.
* Developed frameworks to interface with the Teamcity API to alter several features like password reset, feature status check.
* Developed a report to display the status of every project’s build on a nightly basis to get a clear picture of the system’s health.

Mahindra Comviva, Gurugram, Haryana **August,2016 – July,2018**

**Engineer – Product Development,** Africa Integrated Operations

* Developed, designed and deployed financial services for company’s mobile financing solution.
* Technologies used were Java, JSPs, Oracle, HTML, Struts, Hibernate.
* Deployed product in eight central African countries; oversaw development of several last-minute client requests and bug fixes. I have helped squash several crucial bugs that played an important part in getting the client’s sign-off.
* Made changes to existing and new services to handle upwards of 1,000,000 customers and 50 transactions per second that included peer-to-peer payment, micro loans, multi-vendor bill payment and other customer services.
* Created data reports for agents in our system to track daily transactions using Pentaho’s Data Integration tool, wrote a simple program to auto circulate these reports internally simultaneously after generation.

**PROJECTS**

**Minesweeper Solver •Project for the Artificial Intelligence course** **•Java**

* Implemented a Java program to predict the next move in a minesweeper game.
* Used graph search to match with a set of patterns to predict the next move depending on the current state of the game.
* Algorithm solves 57% beginner, 42% intermediate and 1% expert worlds tested on sets of million random worlds.

**Shell sort comparisons •Project for Algorithms and Analysis •Python •NumPy •Matplotlib**

* Implemented five variations of the shell sort algorithm using Python.
* Tested each variation’s runtime for varying input sizes and drew a log plot for the relation between the runtime and input size.