

Darshan Washimkar

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PROFESSIONAL PROFILE

I am a **Software engineer** holding a **master's degree** in computer science. With **3 years** of diverse **industry experience** in software development, **object oriented programming, algorithms and data structure**, I am looking for a software developer/engineer opportunity.

TECHNICAL EXPERTISE

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|--|-----------------------|
| ➤ C, C++, JAVA, Python, JavaScript, HTML, C# | Programming languages |
| ➤ Node.js, jQuery, HTML5, JSON, PHP | Web development |
| ➤ MySQL, Oracle, MongoDB, SQL | Databases |
| ➤ Git, Mercurial | Versioning Tools |
| ➤ Amazon Web Services (AWS), Hadoop | Cloud services/tools |
| ➤ TCP, IPv4/6, BGP, Chord | Networking Protocols |
| ➤ Agile- Scrum, Waterfall | Methodologies |
| ➤ Eclipse, GDB, JIRA, Virtualbox | Other Tools |

WORK EXPERIENCE

- **Software Engineer** Nov 2016 – Present
Nevelex Corporation Los Angeles, CA
 - Solved high priority defects in DirecTV set-top box software which **directly impacts customers**
 - Handled crucial **JAVA and C++ applications** named druid, MOCA manager and webkit
 - Worked with **JIRA, eclipse, GDB, remote debugger, mercurial, ubuntu** to track and resolve defects
 - Wrote unit tests using **junit, mockito and gtest** frameworks for bug patches
- **Graduate Teaching Assistant** Jan 2015 – Dec 2015
Colorado State University Fort Collins, CO
 - Assisted professors with classes such as **“computer security”, “computer networks and the internet”, “advanced computer networking”** and **“foundations in programming”**
 - Conducted **two recitations every week** for a batch of **30 students**
- **Developer** Jan 2014 – Jan 2015
Colorado State University Fort Collins, CO
 - Delivered a translator module for **BGP Monitoring System** which **converts Multi-Threaded Routing Toolkit (MRT) files to XML format using C and C++**
 - **Developed visualization tools** using KML to simulate **DDoS attack** events like **NTP reflection attack**
 - Designed, developed and managed website for the **BGPmon project**
- **Programmer Analyst** June 2011 – Sept 2013
Cognizant Technology Solution Pune, INDIA
 - Programmed websites and mobile applications using **JavaScript, jQuery, CSS, HTML 5, Node.js, bootstrap, JAVA, ASP.net** for world's top pharmaceutical and financial firms
 - Employed **agile- scrum methodology** to develop various projects

EDUCATION

Master of Science, Computer Science

Colorado State University, Fort Collins, CO, USA

Aug 2016

GPA: 3.86/4.00

- Master thesis: "Error Correcting Optical Mapping Data": Developed the first non-proprietary method for correcting errors from DNA sequence bar code (known as Optical mapping data). Redundant information present in the data is used to rectify 83% of the errors.

Bachelor of Technology, Information Technology

Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded, MH, India

May 2011

GPA: 7.8/10

AWARDS & CERTIFICATIONS

- Innovative gaming application award for the web app – "Honey Bee"
- "Low Cost Solutions Project Of The Year" for highest efficiency in developing websites and mobile apps
- Microsoft certification in programming HTML5 with JavaScript and CSS3 (Exam 70-480)

ACADEMIC PROJECTS

- **Optimal Selection of Enzyme Triad Using MapReduce** Oct 2014 – Dec 2014
 - Proposed a new method to find best restriction enzyme triad from ~11 million combinations using **MapReduce**
 - Implemented the algorithm in **hadoop** using **python** to distribute the task of finding shared sub strings in **suffix tree**
- **Forecast Use Of A City Bikeshare System** Nov 2014 – Dec 2014
 - Implemented linear (LLS) and non-linear models(Neural Networks) to predict the demand for bike sharing system
 - Code implementation was in **python** and the results were submitted to kaggle for competition
 - Showed that non-linear model performs much better for this problem
- **Cloud based Source-aware key- value store** Oct 2014 – Dec 2014
 - Distributed Hash Table (DHT) implemented from Chord paper using **Java**
 - Used cloud computing environments like **Amazon Web Services (EC2,EBS)** for development
- **Genome Assembler** Aug 2014 – Dec 2014
 - Implemented a sparse de Bruijn graph for genome assembly from scratch in **C++**
 - Performed in depth theoretical investigations into various **succinct data structures** for de Bruijn graph optimization
- **A P2P File Sharing Network** Feb 2014 – Mar 2014
 - Project involved development of peer to peer file sharing network that uses protocol resembling BitTorrent
 - Implementation of **socket programming, fork, event loops** was in **C** language
- **A File Sharing Protocol Over Named Data Networks (NDN)** Mar 2014 – Apr 2014
 - Project was implemented using **CCNx** library from ccnx.org in **C**
 - Compared performance of the protocol in IP vs NDN configuration and found that NDN gave much better performance
- **Low Cost Supercomputer with Cluster Computing** Aug 2010 - Apr 2011
 - Built a simple-to-manage and easy to deploy HPC cluster from outdated PCs of college laboratory aiming to run compute intensive software applications in an academic setting
 - Used HPLinpack to evaluate the performance