

Akshit Monga

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Software developer and a CS grad student proficient in object-oriented programming (C++, Java, Python) and web development (HTML, CSS, Angular, JavaScript, PHP, Spring) with experience in machine learning and AI looking for full-time SDE roles

EDUCATION

Masters of Science, Computer Science 01/17 – 12/18
University of Florida, Gainesville, Florida, USA GPA: **3.76/4.0**
Classes: Analysis of Algorithms, Advanced Data Structures, Distributed OS, Distributed Multimedia Systems, Prog. Lang Principles

Bachelor of Technology, Information Technology 08/13 – 12/16
Jaypee Institute of Information Technology University Noida, India CGPA: **8.0/10.0**
Classes: Data Mining, Operating Systems (OS), Software Engineering, Web Application Engineering, Computer Networks (CN)

INDEPENDENT COURSEWORK

Online Certification, Machine Learning, Stanford University on Coursera – Dr. Andrew Ng 11/17
Learnt supervised and unsupervised ML techniques, linear and logistic regression, regularization, data clustering, and CNN

SKILLS

Languages - C, C++, Java, SQL, Elixir, Python, Swift, and Octave
Database - MySQL, RSQL, Oracle 11G, and Firebase
Web Development - HTML, CSS, PHP, JavaScript, Angular, Java Spring, XML, XQuery, ActiveMQ, Cayenne, Stripes Framework
Software - Git, GitHub, Jira, Bitbucket, TFS, AWS (EC2, S3), Linux, XCode, IntelliJ, SourceTree, and Android Studio

EXPERIENCE

Software Developer Intern, Modernizing Medicine, Boca Raton, Florida, USA 06/18 – 08/18

- Contributed to frontend and backend engineering projects while finding creative solutions to challenging problems.
- Worked on full stack feature dev and bug fixes using Angular, HTML, CSS, Java Spring, RSQL, Elasticsearch, Docker, and Jira.
- Learned & participated in agile development cycle, collaborated with different teams for cross functional system support.

Student Researcher under Dr. Andy Li, Li Lab, University of Florida, USA 01/18 – 06/18

- Researched use cases, implemented Blockchain technology with Ethereum for smart contracts using Solidity and Go Lang.

Web and Software Development Intern, ZONES INDIA Pvt. Ltd., Noida, India 06/16 – 08/16

- Designed web pages using HTML, CSS, JavaScript, and Bootstrap for product advertisements and branding.
- Focused on user experience and designed responsive mobile – first web interfaces.

ACADEMIC PROJECTS

Compiler design for a custom programming language – Java 01/18 – 05/18

- Implemented a compiler in Java to convert the mini-custom programming language to Java byte code.
- Designed a Scanner, Parser, Type Checker, AST, and Code Generator. Designed JUnit test cases for testing code coverage.

Peer to peer file sharing software – C++ 08/17 – 12/17

- Developed a distributed file sharing software similar to Bit Torrent to implement file sharing among peers.
- Implemented choking/unchoking mechanism, handshaking protocol, interested or not signal, and multi-threading.

Perfect 11, Best squad predictor for soccer teams – PHP | HTML | CSS | Oracle Database 01/17 – 05/17

- Implemented squad predictor using data analytics. Used historical data to create normalized player profiles.
- On the basis of normalized score of a player against a particular team, predicted whether to include that player in the squad.

Findmed, A medicine recommendation system based on neural network – Java | Python | Linux 08/16 – 12/16

- Successfully created a medicine recommendation tool to recommend medicines to users based on their symptoms.
- Implemented elastic search for faster search, neural network to optimize, and client-server model for cross-platform.

INDEPENDENT PROJECTS

Hotel Review API Simulator – Java | MySQL | Spring Boot | Maven 03/18 – 04/18

- Developed a RESTful API that simulates a back-end request processing application for getting hotel reviews.

Android app behavior classification using topic modeling techniques – Python | Java 09/15 – 05/16

- Designed a software to check whether an android app is behaving as advertised in the play store or not.
- Performed data crawling on the play store to fetch app descriptions, implemented LDA algorithm for topic modelling.
- Performed data clustering on related apps. Extracted the APK files, decrypted the manifest files to extract user permissions.

PUBLICATION

Published a technical paper on “[Android app behavior classification using topic modeling techniques and outlier detection using app permissions](#)” in **IEEE Xplore**, December 2016.