669-261-2485   # ASHUTOSH SINGH   San Jose, CA
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SUMMARY:
Full stack engineer with experience building web apps and services using C#, Java, Python, and JS.

EDUCATION:
San Jose, CA   **San Jose State University**   **Aug 16 – May 18**
- **Master of Science in Software Engineering | GPA: 3.74 / 4**
- **Coursework:** Software Design (Design Patterns, UML), Distributed Systems, Machine Learning and Cloud Technologies

SKILLS:
Languages: C#, Java, JavaScript, Python, PHP, HTML5, CSS3, SQL   **Cloud Technologies:** AWS, Docker
Web Technologies: jQuery, Express.js, KnockoutJS, Node.js   **Web Services:** REST, SOAP
Frameworks: ASP.NET MVC, Flask, LINQ, Elastic Search, RabbitMQ, Kafka, Netty   **Testing:** jUnit, NUnit, Moq
Databases: SQL Server, MySQL, PostgreSQL, Oracle 10g, Redis, MongoDB   **Version Controls:** Git, SVN, TFS

ACADEMIC PROJECTS:
Dropbox Prototype (Java, Netty, Protobuf, Raft) ⧉   **Spring 2017**
- Implemented distributed file sharing and storage system using Raft consensus algorithm.
- Addressed issues such as dynamic scalability, high availability, work stealing, task sharing, fault tolerance.

Analyzing Twitter streams (Python, Kafka) ⧉   **Spring 2018**
- Implemented solution to store and analyze twitter stream feed.

Face Tracking and Recognition (C#, Python, numpy, Arduino, OpenCV)   **Fall 2017**
- Built apparatus to track faces and recognize them using OpenCV and C#.

Scalable and Distributed UML Parser Implementation (NodeJS, Java, AngularJS) ⧉   **Spring 2017**
- Built AWS infrastructure to accommodate server multi-tenancy, database server and frontend server using Auto Scaling groups and Elastic Load Balancers.
- Designed relational database (AWS RDS) to provide data multi-tenancy using extension columns approach.

Starbucks Prototype (NodeJS, Python, MongoDB, AWS, Heroku) ⧉   **Spring 2017**
- Built AWS infrastructure to accommodate server multi-tenancy, database server and frontend server using Auto Scaling groups and Elastic Load Balancers.
- Implemented multi-tenant Starbucks REST API in Python and Node.js with MongoDB and three-node replication.

Trip Planner (Python, JavaScript, Bootstrap, MySQL) ⧉   **Fall 2017**
- Integrated Google Maps, Uber, Lyft, Open Weather, Flickr APIs for comparing prices for a specified route.

Catch Me If U Can (Java, AWS, Docker) ⧉   **Fall 2017**
- Implemented multiplayer game to teach Binary Search via a game.
- Utilized Restlet framework for communication between client and AWS server.

WORK EXPERIENCE:
Software Engineer Intern   **Icertis**   **Jun 17 – Aug 17**
- Developed a chatbot using Microsoft Bot framework, deployed it on Azure and configured it for multiple channels.

Senior Software Engineer   **CitiusTech**   **Aug 15 – Jul 16**
- Analyzed logs to find and fix bugs, thereby reducing errors by 50%.
- Improved architecture for better maintainability and optimized code for performance by use of design patterns.

Software Engineer L2   **Rolta India**   **Nov 14 – Jul 15**
- Designed application to improve approval processes in Department of Industries.
- Wrote REST services to integrate data from multiple databases and SharePoint services and built visualizations on them.

Software Engineer   **Paramatrix Technologies**   **Aug 12 – Nov 14**
- Improved page load times by 100% from 3 secs to 1.5 secs.
- Interfaced with customers to elicit requirements and worked on client locations to build multiple web applications.

AWARDS AND CERTIFICATION:
- **Phi Kappa Phi:** Top 10% of graduating class (2018-2019)
- **MCSD:** Web Applications (Microsoft - Aug 2014)
- **STAR of the team**: Awarded for consistent performance by CitiusTech in 2016.
- **First prize:** Awarded for the best original idea at IBM Technical Event held at VJTI.