

# Shantanu Deshmukh

RESEARCH ASSISTANT · GRADUATE STUDENT · SAN JOSE STATE UNIVERSITY · 754 THE ALAMEDA, SAN JOSE, CA - 95126

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## Skills

*Languages:* Python, Java, C#

*Database:* MySQL, MongoDB, DynamoDB

*Cloud:* GCP, Azure

*Front end:* JavaScript, React, Angular, Bootstrap, TypeScript, jQuery, d3.js, css, node.js

*Machine Learning tools:* TensorFlow, numpy, pandas, Flask, CNN, LSTM

*Tools & IDEs:* Visual Studio, GitHub, Eclipse, Jenkins, JIRA, Azure DevOps, Unix/Linux env

## Work Experience

### Microsoft

Redmond, WA

SOFTWARE ENGINEER 2

July 2019 - PRESENT

- Writing product and system development code
- Building systems that are highly resilient and always available serving billions of requests per day
- Building backend services and front-end user interfaces for large-scale consumer-facing applications
- Orchestrating release workflows and pipelines; applying standardized pipelines via APIs to achieve CI and CD using industry-standard tools
- Reviewing code written by peers, providing feedback to ensure that it follows best practices, including checking that the code adheres to style guidelines, is accurate, is secure and testable, and is efficient. Ensuring that the code is of high quality and meets the project's and company's standards.
- Collaborating between team members and often between multiple teams, to ensure seamless development and bug fixes in feature rich code base.
- Responsible for identifying and prioritizing product or system issues, debugging them, and resolving them by analyzing their impact on the service operations and quality

### AcuityAI Stanford Startup

Palo Alto, CA

COMPUTER VISION AND MACHINE LEARNING INTERN

June 2018 - Dec 2018

- Improved image detection accuracy by hyper-parameter optimization on different models like ResNet, VGG, MobileNet, Inception, etc. and modifying existing layers/models as per the use case
- Extracted, transformed and cleaned large dataset on Linux based cloud machines to train AI models

### San Jose State University

San Jose, CA

RESEARCH ASSISTANT

Jan. 2018 - PRESENT

- Converted unstructured medical text to a structured format using Natural Language Processing
- Exposed structured text using MEAN(MongoDB, Express, Angular and Node) Stack on Google cloud platform
- Awarded funds by the SJSU College of Science Research, Scholarship, and Creative Activity (RSCA) grant

### Deloitte Consulting LLP

Mumbai, India

BUSINESS TECHNOLOGY ANALYST (DELOITTE DIGITAL)

Nov. 2015 - Aug. 2017

- Evaluated as a top performer for implementing multiple business modules in Java, overcoming obstacles, and ensuring timely delivery working under an agile development model
- Helped in architectural design of large-scale projects considering trade offs and effectively communicating across the team and the client
- Created a distributed data processing engine using Apache Storm and Apache Kafka, as a Firm initiative to be proposed to a prospective client
- Awarded SAP Hybris Commerce development professional certificate

### Accenture Services Pvt. Ltd

Hyderabad, India

SOFTWARE ENGINEER

Aug. 2013 - Oct. 2015

- Designed and developed multiple use cases in Java along with their jUnits satisfying user requirements
- Created a XML based automated testing framework, to test REST services, saving around 40% of the previous testing effort
- Awarded ACE(Accenture Celebrates Excellence) award for effective team-work and successfully delivering a high risk project

## Education

### San Jose State University

San Jose, CA

M.S. IN COMPUTER SCIENCE (GPA 4.0)

Aug. 2017 - Exp. May. 2019

- Awarded a **Scholarship** for Outstanding Academic Achievements

### KJ Somaiya Institute of Engineering and Information Technology

Mumbai, India

B.E. IN COMPUTER ENGINEERING

July. 2009 - May. 2013

## Research Papers

### Fine Object Detection in Automated Solar Panel Layout Generation

Orlando, Florida

IEEE 17TH INTERNATIONAL CONFERENCE ON MACHINE LEARNING AND APPLICATIONS (ICMLA 2018)

DOI: 10.1109/ICMLA.2018.00034

### Machine Learning for Classification of Inhibitors of Hepatic Drug Transporters

Orlando, Florida

IEEE 17TH INTERNATIONAL CONFERENCE ON MACHINE LEARNING AND APPLICATIONS (ICMLA 2018)

DOI: 10.1109/ICMLA.2018.00228

### PediatricDB: Data Analytics Platform for Pediatric Healthcare

Berlin, Germany

IEEE 13TH INTERNATIONAL CONFERENCE ON DIGITAL INFORMATION MANAGEMENT (ICDIM 2018), PP. 216-221

DOI: 10.1109/ICDIM.2018.8847072

### A Long-Short Term Memory Network for Detecting CRISPR Arrays

Boca Raton, Florida

IEEE 18TH INTERNATIONAL CONFERENCE ON MACHINE LEARNING AND APPLICATIONS(ICMLA 2019), PP. 619-624

DOI: 10.1109/ICDIM.2018.8847072