

DENIM DATTA

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SUMMARY

Master in Computer Science graduated in May 2019 from Arizona State University. Have Industrial Experience of 9+ years and more than 9 months of experience working as a Research Aide at Arizona State University. Skilled in Java, Python, Perl, Shell Scripting, SQL, Data Structures, and AWS technologies like CloudWatch, DynamoDB, SQS and AppConfig.

EDUCATION

Arizona State University • Tempe, Arizona

August 2017 - May 2019

Master of Computer Science

GPA: 3.87/4.0

Courses: Foundation of Algorithms; Software Security; Distributed and Multiprocessor Operating System; Natural Language Processing; Statistical Machine Learning; Mobile Computing, Data Mining, Distributed Database System

KIIT University • Bhubaneswar, India

August 2009 - May 2012

Bachelor of Technology, Computer Science and Engineering

GPA: 8.90/10.0

Courses: Data Structures and Algorithms; Principles of Programming Languages; Operating System; Database Management Systems; Theory of Computation; Language Processors

SKILLS

Languages	Java, Python, Perl, Shell, Batch, Android Programming, C, C++, JavaScript
AWS Technologies	CloudWatch, SQS, SNS, DynamoDB, AppConfig, CloudFormation
Databases	Oracle, MySQL
Tools	Git, Ant, SVN, Maven, Rational ClearCase
IDE	IntelliJ, PyCharm, Eclipse, Android Studio
Frameworks	Spring MVC, JUnit, NumPy, Sklearn, Pandas

PROFESSIONAL EXPERIENCE

Software Developer Engineer @ Amazon Development Centre Canada ULC • Vancouver, BC, Canada

January 2023 – June 2025

Responsible for design, development and delivery of feature modules to enable sellers to pragmatically add and manage listing items in Amazon

- Developed APIs to enable sellers to pragmatically add and manage listings in Amazon using Java, Json, Ion and AWS CloudWatch.
- Designed new API and worked as POC to deliver the component to production.
- Worked on adding and improving throttle configuration using AWS AppConfig.
- Improved the quality of service going in production by adding unit and integration tests.

Involved in mentoring within organization

- Successfully mentored a team member in Improvement Plan and restored them as a trusted contributor.
- Engaged in multiple knowledge transfer sessions within team and with org level audience as a presenter.

Software Developer Engineer @ Amazon.Com Services LLC • Tempe, Arizona, USA

July 2019 – January 2023

Responsible for design, development and delivery of feature modules to enable sellers to pragmatically add and manage listing items in Amazon

- Developed APIs to enable sellers to pragmatically add and manage listings in Amazon using Java, Json, Ion and AWS CloudWatch.
- Added batch mechanism in existing API to reduce number of calls made to downstream services by 95% and service latency by 5%.
- Improved existing service to mitigate security vulnerabilities using AWS technologies like SQS and DynamoDB.
- Worked on adding and improving throttle configuration using AWS AppConfig.
- Improved the quality of service going in production by adding unit and integration tests.

Involved in mentoring within organization

- Successfully mentored an intern to design and deliver a prototype API which meets Amazon development standard.
- Engaged in multiple knowledge transfer sessions within team and with org level audience as a presenter.
- Helped new incoming engineers in team to quickly ramp up with team's development process, standard procedure on maintaining services and how to root cause analyze any issues.

Hold the mantle of team's Scrum Master for 1.5 years.

- Created internal checklist wiki for daily scrum sync up meeting
- Contributed in internal wiki on how to create a sprint summary to send to broader internal audience.

Research Aide @ CIS Dept., Arizona State University • Tempe, Arizona, USA

June 2018 – May 2019

Responsible for helping with developing python scripts to generate results for the Research needs.

- Developed script for Facial Landmark detection, Website scraping and Word embedding using Python, Selenium and Word2Vec.

Senior Software Engineer @ Aricent Technology (Holding) Limited • Bengaluru, India

November 2012 – June 2017

Responsible for design, development, and delivery of feature modules. Involved in all the phases of Software Development Life Cycle. Led cross-functional team on major feature development and delivery.

- Developed scripts to monitor and report system status, free disk space, power status for Linux and AIX using Perl.
- Developed disaster recovery feature using Java, Perl and Tcl/Tk.
- Awarded the Best Project Technical in Organizations initial training program.

Developed tool for *organization coding guidelines compliance* check, and extended internal API.

- Reduced execution time of the API by 85%, and guideline compliance checking time by 99% by automating the process.
- Recognised as Best New Joinee for the developing the Compliance Checking Tool.

Intern - SDET @ Microsoft (R&D) • Bengaluru, India

May 2011 – July 2011

Designed and automated test cases using C#.

Worked in List Manager Automation, part of Microsoft adCenter Project.

ACADEMIC PROJECTS

Malware Family Analysis

Natural Language Processing, *Spring, 2018*

The purpose is to extract/collect data from predefined websites for a given Malware name and parse it to get the Malware summary.

- Extracted and preprocesses required data for the summarized report.
- Used nltk for Named Entity Recognition and POS tagged the data to extract required field data based on tag rules.

Technology used: Java, Python, Batch Script, nltk, Eclipse, PyCharm, Git

Restaurant Success Prediction

Statistical Machine Learning, *Spring, 2018*

The purpose is to predict a restaurant's success probability using different ML techniques on Yelp Academic Dataset.

- Preprocess the Yelp Dataset and implemented Feature Extraction (PCA) and different Machine Learning techniques.
- Worked on comparison and preparing report from different machine learning techniques.

Technology used: Python, NumPy, Sklearn, Pandas, PyCharm, Git

Secure Banking System

Software Security, *Fall, 2017*

Developed web application for banking activities along with security features.

- Contributed in designing the project modules, class diagram, DB schema and server deployment.
- Developed PKI, OTP, email service framework; implemented security features to prevent against SQL Injection, Cross-Site Scripting, Cross-Site Request Forgery, Middleman Attack and created SSL certificate.

Technology used: Java, Spring MVC, JavaScript, JSP, Maven, Eclipse, Git
