

# Aditya Sharma

Portfolio: <https://adisharma.gitlab.io/>  
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## SUMMARY

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I'm a Computer Science Engineer looking to lead a Product and break into Product Management.

## EDUCATION

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- **Arizona State University** Tempe, AZ  
*Masters in Computer Science; GPA: 3.83* May 2020
- **College of Engineering Guindy, Anna University** Chennai, India  
*Bachelor of Computer Science* May 2018

## SKILLS SUMMARY

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- **Languages:** Java, Python, MATLAB, C++, R, SQL
- **Web Development and Frameworks:** HTML5, CSS, Javascript, AngularJS, D3.js, JointJS, Django, jQuery, Spring, Ruby
- **Database Technologies:** MySQL, QLDB, DynamoDB, PostgreSQL
- **Version Control:** Git

## EXPERIENCE

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- **MathWorks** Natick, MA  
*Application Support Engineer 2* Jul 2020 - Present
  - Identified important features to introduce in the Text Analytics Toolbox by collaborating with cross-functional teams.
  - Created a demo to highlight the potential of using GPU Coder in a Continuous Integration platform.
  - Leading the release process for the Symbolic Math Toolbox R2021b major release.
  - Contributed to the Support team by assisting customer's with technical questions on various MATLAB toolboxes.
- **ASU Biodesign Institute** Tempe, AZ  
*Statistician* Oct 2018 - May 2020
  - Developed a classification model to predict the occurrence of various diseases from protein biomarker studies.
  - Implemented a rule-based model for Gene multi-function discovery and Pathway completion in Cancer Pathways.
  - Built a deep learning framework using Sci-BERT to aid Gene interaction network inference.
- **Amazon Web Services** Seattle, WA  
*Software Development Engineer Intern* May 2019 - August 2019
  - Designed and implemented a core functionality to aid version control for Contact flows in Amazon Connect thereby significantly enhancing customer experience.
  - Designed and developed API's for efficient query processing.
  - Optimized database queries by switching from a relational database to a ledger database - **Amazon QLDB**.
  - Built a scalable infrastructure for versioning using **AWS technologies** such as **S3, QLDB, Lambda, Cloudsearch**.
  - Designed an efficient solution to backfill existing data currently in production to the new datastore.

## ACADEMIC PROJECTS

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- **Hoogle : A Data Visualization tool to find your home away from home** Feb 2019 - Apr 2019
  - Implemented a rolling histogram model to depict the growth of hotels in various states in USA over time from 2005-2012 using the TripAdvisor dataset.
  - Compared the overall best hotels of a state using a radar chart and a comparative word cloud for all the present years.
  - Project was implemented using D3.js. Demo of the project - [Hoogle : A Data Visualization tool](#)
- **Named Entity Recognition of Adverse Drug Events from Clinical Notes** Aug 2018 - Nov 2018
  - Developed a system to automatically detect mentions of medication name, its attributes and that of Adverse Drug Effects (ADE's) from clinical notes (MADE 1.0 Challenge) using **Bidirectional LSTM** and **CRF**.
  - Performed extensive pre-processing using regular expressions and used PubMed word embeddings for the model.
  - Obtained an F1-score of **0.79** on the MADE 1.0 test dataset for the overall system which consisted of 10 classes.
  - Carried out an in-depth error analysis to identify and provide solutions to tackle the problems faced by the model.