

# JAIMIN BRAHMBHATT

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## EDUCATION

### Master of Science, Computer Science

Jan. 2020 – Dec. 2021

Texas A&M University-Corpus Christi

Corpus Christi, TX

Relevant Coursework: Design and Analysis of Algorithm, Advanced Software Engineering, Mobile Software Development, Compiler Design and Construction, Machine Learning, Deep Learning.

### Bachelor of Engineering, Computer Science

Aug. 2015 – May. 2019

Gujarat Technological University

Gujarat, India

Relevant Coursework: Data Structures, Object-Oriented Programming with CPP and JAVA, Theory of Computation, Operating Systems, Database Management

## RELEVANT EXPERIENCE

### Adjunct Faculty

Aug 2021 - Present

Department of Computing Sciences

Texas A&M University-Corpus Christi, TX

- Educated 60+ CS students, led recitations, designed labs, class activities, assignments, graded coursework, and increased student engagement by 40 % by introducing modern and robust methods for learning. Received an offer as full-time faculty.

### Graduate - Research Assistant

Aug 2020 - Present

Department of Math and Statistics

Texas A&M University-Corpus Christi, TX

- Built a Machine Learning model to examine human behavior and mentality towards Covid-19. Performed data science pipelining jobs – data collection, data cleaning, imputation, visualization, statistical testing, and modeling. Applied knowledge of scikit-learn, pandas, scipy, and matplotlib to introduce an ensemble model to achieve an accuracy of over 78%.
- Expanded existing research via modeling the neural network model to solve the partial derivative equations (PDEs) namely Minimal Surface. using tensorflow, numpy and got hands-on using Linux-based high-performance computing (HPC) clusters.

### Software Development Engineer

May 2018 - May 2019

Trinity Unicepts Private Limited

India

- Implemented and supported two client projects through all stages of the development lifecycle. Participated in user requirements gathering, project planning, design, implementation, and testing.
- Engaged in code fixes and feature additions under the direction of senior developers. Identified ideas to improve system performance and impact availability by more than 50%. Used Java, Rest API, Git, AWS

### Software Development Engineer

June 2017 - Mar 2018

Gujarat Technological University

India

- Maintained the web presence of the university system serving over 50,000 students. Demonstrated and implemented the use of AWS Cloud Servers to improve the load balancing of websites by 60%.
- Collaborated with team members using version control systems such as git to organize modifications and assign tasks.
- Used: Java, AWS RDS (MySQL), Git, AWS, AWS ELB

## SELECTED PROJECTS | MORE PROJECTS ON GITHUB

### Saloon Check-in Bot | Python, Selenium, AWS Lambda

- Automated check in process at local saloon using Python and AWS Lambda.
- Implemented Selenium to create an instance of Chrome to interact with the correct elements of the web page.
- Deployed a Linux virtual machine to run on AWS so that the program is able to run as soon as check-ins are available.
- Used Cron to schedule the program to execute automatically at 11 AM every time so a reservation is made for me.

### Email Search Engine | Python, NLTK

- Developed a command-line application using python and NLP that query searches inside user inputted email mbox file.

### Ticket Price Calculator App | Java, Android Studio

- Devised an Android application using Java and Android Studio to calculate ticket prices for the game of bowling in bowlero.
- Processed user-inputted information in the back-end of the app to return a subtotal price based on the tickets selected.

### Whatsapp Stickers App | Java, Android Studio, Adobe Photoshop

- Launched an android stickers application for Whatsapp using Java. Accomplished over 400,000 + downloads on the play store.

### Octobuy Chrome Extension | reactJS, jQuery, AJAX, fetch API

- Built a chrome extension using reactJS as the base along with jQuery to assist in online shopping by showing price comparison.
- Used fetch API to make calls to collect the product details from different e-commerce sites and track price changes over time.

## TECHNICAL SKILLS

<b>Languages:</b>	Python (Tensorflow, OpenCV, Numpy, Pandas, Scipy, Matplotlib), Java, C++, JavaScript, Shell Scripting (Bash)
<b>Web Technologies:</b>	RESTful APIs, HTML, CSS, React.Js, Bootstrap, jQuery, Flask, Spring Framework, Hibernate
<b>Databases:</b>	SQL, MySQL, Amazon RDS, Amazon DynamoDB, MongoDB, PostgreSQL
<b>Developer Tools:</b>	Linux, Git, VS Code, Eclipse, Pycharm, Android Studio, OBS, $\text{\LaTeX}$ , High-Performance Computing Clusters
<b>Cloud Technologies:</b>	AWS (VPC, CloudFormation, Code Deploy, Lambda, S3, API Gateway, Load Balancers, CloudWatch, IAM, DNS)