

# MITESH CHAKMA

**Birthdate:** 23-Nov-1993

**Citizenship:** Bangladeshi

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## ● Summary

A self motivated programmer with a great passion for technology and software development and has a working experience of more than 3 years. Likes to work with python and its related technologies.

## ■ Work Experience

December 2020 to **Software Engineer, FernTech Solutions Ltd.** Dhaka, Bangladesh

Present

**Technologies:** Django, DRF, ORM, AWS, PostgreSQL, Docker, DigitalOcean, Git, Jira

- Leading a project titled "HnCitiPages" for South Africa market.
- Designing the application core backend along with implementations of the aligned solutions in the platform.
- Built new backend functionalities and increased site upload capacity, increased user feedback to the platform.

July 2020 to

November 2020

**Software Engineer, SK JAPAN EXPORT CO. LTD** Dhaka, Bangladesh

**Technologies:** Django, Flask, DRF, ORM, GCP, PostgreSQL, Redis, Docker, Bitbucket, Trello

- Collaborate with AI engineers and frontend developers to implement solutions that are aligned with and extend shared platforms and solutions.
- Creating new web functionality, train and test AI models on the IOT platform.
- Designed single sign-on with Identity and Access Management using Keycloak.
- Train, manage and provide guidance to Intern software development engineers.

October 2018 to

May 2019

**Trainee Artificial Intelligence Engineer, Hiperdyne Corporation** Dhaka, Bangladesh

**Technologies:** Pandas, NumPy, SciPy, Scikit-learn, Keras, TensorFlow, Matplotlib, Seaborn

- Created algorithms using Python, NumPy, and Pandas to filter data collection results.
- Created data visualization graphs and charts to make meaning of data.
- Implemented data mining strategies to build a database of meaningful data

June 2018 to

September 2018

**Research Assistant, LaSSET, BRAC University** Dhaka, Bangladesh

**Technologies:** Pandas, NumPy, SciPy, Scikit-learn, Keras, TensorFlow, Matplotlib, Seaborn, ArcGIS, LaTeX

- Built, processed, visualized, and prioritized environmental and social geospatial data for urban and rural areas of Bangladesh.
- Created a Python script to upload and update the researched data.
- Built a script with machine learning techniques for predicting the future growth of urban and rural areas of Bangladesh.

## ■ Education

January 2013 to **BRAC University** Dhaka, Bangladesh

December 2017 **Relevant Coursework :** Algorithms, Data Structures, OOP, Software Engineering

## ■ Publications

**PUBLICATION 1:** "Determining Land use and land cover changes and predicting the growth of Dhaka, Bangladesh using remote sensing and GIS techniques", Malaysia, ICESSAT 2018.

URL : <https://iopscience.iop.org/article/10.1088/1742-6596/1152/1/012023>

**PUBLICATION 2:** "Change detection of the Sundarban part of Bangladesh using remote sensing and GIS techniques with Machine learning algorithms", Germany, IAC 2018.

URL: <https://iafastro.directory/iac/paper/id/47723/summary/>

## ▣ Extra-curricular Activities and Awards

- Researcher and lead software developer, BRAC University Robotics Club, December 2013 - May 2016
- Exchange Student, Computer Science, Kent State University, OH, USA , August - December 2016 Administrated by World Learning and sponsored by the US Department of State's Bureau of Educational and Cultural Affairs.
- Regional Winner, AEIF -2017 Project Title: Learning English- Pathway to progress under category "Education and Inclusion: Pathways to success" URL : <https://goo.gl/XWRtwq>
- Android development program under ICT ministry, December-2013, Venue-UIU, Dhaka, Bangladesh.