

## EMPLOYMENT

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<b>Software Engineer</b>	<b>Investnet Yodlee, Bengaluru</b>	<b>July 2019 - Present</b>
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- Wrote extensive multi-threaded JDBC programs for the Oracle database to PostgreSQL in AWS migration project for execution of 7000+ SQL queries in less than 30 minutes.
- Designed end-to-end automated solutions, curl, telnet, synthetic monitoring scripts in python and shellscript and php dashboards to bring down the number of incidents missed by 60%.

**National Institute of Technology**

<b>Research Assistant</b>	<b>Durgapur</b>	<b>July 2018 - July 2019</b>
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- Designed an Energy Based Generative Adversarial Network that exhibited higher stability than normal GANs and a dice coefficient of 88.7.
- Developed CSNet: A composite deep neural network for segmentation that topped the leader boards in the MICCAI ISLES 2015 challenge.

<b>Software Development Intern</b>	<b>MAQ Software, Hyderabad</b>	<b>May 2018 - July 2018</b>
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- Formulated compact code to integrate two intermediate databases into one to improve the efficiency of dependent analytical processing cubes.
- Worked with technologies like SQL Server Management Studio, Integration Services, Microsoft Power BI, and Visual Studio among other tools.

**Indian Institute of Technology**

<b>Research Intern</b>	<b>Delhi</b>	<b>May 2017 - July 2017</b>
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- Designed a tracking engine for the architectural simulator, TEJAS, with the aim of extending it to simulate Android architecture in addition to the x86 family.

## EDUCATION

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**National Institute of Technology**

<b>Durgapur, West Bengal</b>	<b>Durgapur</b>	<b>July 2015 - June 2019</b>
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- Bachelor of Technology in Computer Science and Engineering. Overall **CGPA: 9.35/10**.
- Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Computer Architecture; Artificial Intelligence; Data Analytics; Digital Image processing.

## TECHNICAL EXPERIENCE

### Projects

- [E-commerce Website for a Sustainable living brand, Gaia](#) (2020). Built an e-commerce website for a self-owned sustainable living brand, Gaia.
- **PIRNet: Two-step Deep Neural Network for Segmentation of Brain MRI with Efficient Loss Functions** (2019-20). PIRNet has been applied to the task of brain MRI segmentation of cerebrospinal fluid, gray matter, white matter, and background over several loss functions.
- [CSNet: A New DeepNet Framework for Ischemic Stroke Lesion Segmentation](#), Computer Methods and Programs in Biomedicine, p.105524 (2018-19). Built a composite deep neural network combining fractal networks and the U-Net model for state-of-the-art segmentation results.
- **Energy-Based Generative Adversarial Network (EBGAN) for Effective Semantic Segmentation of Brain Gliomas Segmentation** (2018). EBGAN model employs an energy function to discriminate between the real and synthetically generated samples and exhibits higher stability during training than regular GANs.

## AWARDS

- **Special Mention Award, Operations Innovation Fest, Investnet Yodlee (2019):** For the most innovative automatic incident resolution idea submission and presentation.

## LANGUAGES AND CERTIFICATIONS

- Python; C++; Java; HTML ; CSS; PHP; Bootstrap; SQL; Shell; Latex.
- Neural Networks and Deep learning, AWS Cloud Practitioner, Web Development Training.