

Prithviraj Pramanik

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“Make the change that you want to see in the world.”

OBJECTIVE	A position in the field of computers with special interests in Data Analytics in Air Pollution Monitoring, Human-Computer Interface in Disaster Management, Communications in Radio Frequency Spectrum & Visible Light.	
CURRENTLY PURSUING	<i>Doctor of Philosophy (Engineering),</i> Visvesvaraya PhD Fellow National Institute of Technology Durgapur Durgapur, India, 2017 - Now Concentration: Computer Science & Engineering	
EDUCATION	<i>Masters of Computer Applications,</i> National Institute of Technology Durgapur Durgapur, India, 2013-2016 CGPA: 8.43/10. In Top 10% out of Class Strength of 84 Thesis: Situational Data Acquisition and Analysis in Post Disaster Scenario <i>Bachelor of Science (Honours), Computer Science</i> Ramakrishna Mission Residential College (Autonomous), Narendrapur, India, 2010-2013 Concentration: Computer Science Minor: Mathematics & Physics Percentage: 70.125%. Ranked 1 in Department (Honors + Pass) Thesis: Automatic Number Plate Recognition (ANPR) of Vehicle using Image processing and Graph based Pattern Matching	
SKILLS	<i>Languages & Software:</i> Python, C/C++, JAVA, Android, Arduino, LaTeX, Django, HTML, CSS, JavaScript, JQuery <i>DBMSs:</i> Oracle, MySQL, SQLite <i>Hardware Boards:</i> Raspberry Pi, Orange Pi, Banana Pi <i>Operating Systems:</i> Windows, Linux, Mac <i>Communication Skill:</i> English(Bi-lingual Proficiency), Bengali(Bi-lingual Proficiency), Hindi	
EXPERIENCE	<i>Director</i> Formative Resilience Know-How Pvt. Ltd (ForkIT) <ul style="list-style-type: none">• Pilot Demo to the different stakeholders viz Government, NGOs• Initiated talks with various Disaster Management Officials, Policy Makers, etc at State & Central Level	2017-Now

Research Engineer

2016-2017

Project DiSARM, Kalyani Government Engineering College, India

- Envisioned & exhibited the Suraksh**IT** System to various stakeholder viz. **Government, Industrial Disaster Managers, NDMA, NDRF, NGOs**
- Founded the company **ForkIT** with **Kingshuk De**
- Spread Awareness of the System
- Productisation of the App & Devices from lab level to field level Prototype

Summer Intern at Project DiSARM

Summer 2016

Department of CSE, National Institute of Technology Durgapur

- Proposed and implemented the structure based data collection in PDM App
- Paved the foundation for the creation of a GIS based data exchange system

Winter Intern at Project DiSARM

Winter 2015

Department of CSE, National Institute of Technology Durgapur

- UI overhaul of the PDM Application
- Incorporation of Multi-lingual Interface

Summer Intern at Project DiSARM

Summer 2015

Department of CSE, National Institute of Technology Durgapur

- Worked on revamping the back-end of the PDM App
- Integration of PSync and benchmarking the performance against Ad-hoc, BT-Sync & Wi-Fi Direct

Winter Intern at Project DiSARM

Winter 2014

Department of CSE, National Institute of Technology Durgapur

- Created a new App for Post Disaster Management named PDM

Summer Intern at Project DiSARM

Summer 2014

Department of CSE, National Institute of Technology Durgapur

- Worked on implementing Delay Tolerant Network on SBC like Raspberry Pi & Banana Pi
- Enhanced the implementation of the Android DTN Stack

Winter Intern at Project DiSARM

Winter 2013

Department of CSE, National Institute of Technology Durgapur

- Worked on implementing Delay Tolerant Network on Android Stack
- Established Ad-hoc network in Android devices

Honors & Awards

- 1 of the Top 10 Disaster Management Startups, 2nd Meeting of National Platform for Disaster Risk Reduction organized by NDMA & Government of India
- Joint Grade A winner, Grand Challenge, ISED 2016, IIT Patna
- 1st Runners Up, Startup Weekend Kolkata, IIM-C

Publications

Journal

- T. Mondal, I. Bhattacharya, **P. Pramanik**, N. Boral, J. Roy, S. Saha, S. Saha, *A Multi-Criteria Evaluation Approach in Navigation Technique for Micro-jet for Damage & Need Assessment in Disaster Response Scenarios*, Knowledge-Based Systems (Elsevier , IF 4.396), August 2018
- T. Mondal, **P. Pramanik**, I. Bhattacharya, N. Boral and S. Ghosh, *Analysis and Early Detection of Rumors in a Post Disaster Scenario*, Information Systems Frontiers (Springer , IF 3.232), March 2018

Conference

- **Prithviraj Pramanik**, Subrata Nandi, and Mousumi Saha, *AirCalyse: Revealing Fine-Grained Air Quality from Social Media*, IEEE ICDM Ph.D. Forum 2018.
- Arindam Ghosh, **Prithviraj Pramanik**, Kartick Das Banerjee, Ashutosh Roy, Subrata Nandi, and Sujoy Saha, *Analyzing Correlation Between Air and Noise Pollution with Influence on Air Quality Prediction*, 6th International Workshop on Data Science and Big Data Analytics (DSBDA 2018), IEEE International Conference on Data Mining (ICDM) Workshop, Singapore, 2018.
- Tamal Mondal, **Prithviraj Pramanik**, Indrajit Bhattacharya, Arka Saha and Naiwrita Boral, *Towards Development of FOPL based Tweet Summarization Technique at Early Stage in a Post Disaster Scenario: From Survey to Solution*, IEEE CISS 2017.
- Partha Sarathi Paul, Subrata Nandi, Saikat Kumar Dey, Kingshuk De, **Prithviraj Pramanik** and Sujoy Saha, *Challenges in Designing Testbed for Evaluating Delay-Tolerant Hybrid Networks*, Work-in-Progress, IEEE PerCom 2015.
- Partha Sarathi Paul, Sujoy Saha, Subrata Nandi, Kingshuk De, **Prithviraj Pramanik**, Anand Chowdhury and Namit Mahuvakar, *DTHN-Test: A Testbed for Evaluating Delay-tolerant Hybrid Networks*, COMSNETS 2015 Poster.
- B.R. Ghosh, S. Banerjee, **P. Pramanik**, S. Dey, *Automatic Number Plate Recognition (ANPR) of Vehicle using Image processing and Graph based Pattern Matching*, National Conference on Computational Technologies 2015

Presentations

- Invited Talk & demonstration on the topic **Service to Establish Ad-hoc Communication Network at Short Notice in Disaster Struck Areas by Scatter Deploying Mobile Phones and Interlinking them**, Workshop on **Innovative ICT Application Initiatives for Rural Development** at National Institute of Rural Development & Panchayati Raj (NIRD&PR), India September 2017
- Presenter at CISS-2017 on **Towards development of FOPL based tweet summarization technique in a post disaster scenario: From survey to solution**, John's Hopkins University, IEEE Conference in Information Systems & Sciences, Baltimore, Maryland, USA, March 2017

- Demo Presentation on Situational Data Collection & Analysis, One-week short term course on Recent trends in Opportunistic & Social Networks and its applications, Kalyani Government Engineering College, June 2015
- Demo Presentation on pSync: A peer-to-peer file syncing tool for challenged networks, One-week short term course on Recent trends in Opportunistic & Social Networks and its applications, Kalyani Government Engineering College, June 2015

**CEO, ForkIT
(Startup)**

July 2016-Now

System Sensitization & Social Awareness June. 2017
Officer's Awareness Camp, Alloy Steel Plant, Durgapur.

- Interactive Session with Industrial disaster management handlers like CISF along with their peer firefighting teams to spread the awareness of ICT based system like SurakshIT

System Showcase April. 2017
Mock Drill on Industrial Fire & Safety, Durgapur Steel Plant, organised by Department of Disaster Management, Government of West Bengal & CISF.

System Showcase March. 2017
Meeting at Sub-Divisional Office & State Disaster Management Office, Durgapur, WB, Government of West Bengal.

Product Showcase Dec. 2016
NASSCOM Startup Warehouse Meet, New Delhi, India

Product Showcase Nov. 2016
NASSCOM Product Conclave, Bangalore, India

System Showcase Jul. 2016
Mock Drill on Flood & Soil Erosion, Kandi, organized by Department of Disaster Management, Government of West Bengal & NDMA, Murshidabad, WB, India

System Showcase Jun. 2016
Mock Drill on Cyclone at Sandeshkhali Block II, organised by Department of Disaster Management, Government of West Bengal & NDMA, Sundarban, WB, India

**Position of
Responsibility**

Co-Founder & CEO ForkIT
A tech company dealing with Post Disaster Management.
Our website is **itsforkit.github.io**

2016-Today

General Secretary Apr. 2015 - May, 2016
CAD (Centre for Application Development), NIT Durgapur, India.

Executive Member Jan. 2014 - Apr. 2015
CAD (Centre for Application Development), NIT Durgapur, India.

Co-Designer & Maintainer Nov. 2015 - Mar. 2016
The official website of 3rd International Conference on Business & Information Management (ICBIM-2016) .

Founder & Student-in-Charge Jan. 2011 - May, 2013
N-CAPTURE, the official photography club
of Ramakrishna Mission Residential College (Narendrapur), India.