Arnab Mondal

Senior Software Developer | Seenit || MS | IIT KGP

- August 23, 1992
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About Me

I'm an exceptionally energetic, precise and result situated analyst with technical experience in the domain of **Fullstack Development**, **Scalable eCommerce Solutions**, **eBusiness**, and **IoT**. I love working in a team since it helps to learn and grow much faster. As I like the saying: 'Talent wins games, but teamwork and intelligence win championships'.

Profiles

- LinkedIn
- Google Scholar

Soft Skills

(Being a Team Player: Autonomy, Flexibility & Versatility, Chain of communication (virtual), Critical thinking, Performance management, Leadership, Systemization, Change management)

Working Experience

Oct 2021 – Apr 2022
Full-Stack Development
*As **Senior Software Developer***
SeenIt Online Pvt. Ltd, Kolkata

\# Responsible for building APIs and responsive user interface.

\# Collaborate with cross functional teams (Product, Design, Frontend developers, QA) on planning and execution to achieve delivery/output and seamless integrations.

Jun 2017 – Mar 2021
Hardware-Software Fullstack Co-design and Project Management *As **Research Consultant***
SRIC, IIT Kharagpur

\# Developed a novel programmable testbed with a Qt (C++) based GUI-driven software tool which allows to design, run, and validate wireless control algorithms for networked CPS.

\# Analyzed the requirements, strategized roadmap, and delivered a software tool for automated generation of smart microgrid designs for a project sponsored by MHRD and MoP, Govt. of India.

2018 – 2020
Experimental Demonstration and Mentoring
*As **Teaching Assistant***
CSE, IIT Kharagpur

\# Prepared tutorials for the Programming and Data Structures Lab and mentored around 15 first-year students in each year.

\# Demonstrated distributed embedded systems and mentored a couple of students' groups in CPS-IoT course term projects.

Sep 2015 – May 2017
Full-Stack eCommerce Development
*As **Software Engineer***
Lister Technologies P Ltd, Chennai

\# Responsible for Third-party integrations (e.g. Google Map, Oracle Responsys etc.), Shopping Cart and MyAccount development and implementing Flexible Design for eight countries websites both Desktop and Mobile that offer to learn of more than 30 languages.

\# Hands-on experience in developing web interfaces using UIkit, BigCommerce, Big Data, and Testing-Targeting-Optimization of customized customer experiences with Oracle Maxymiser.

Education

Jan 2018 – Sep 2021
MS by Research (Supervisor: *Dr Soumyajit Dey*) — IIT Kharagpur
CGPA/Marks: 7.11/10; Focus: Wireless Cyber-physical Systems.

Jun 2011 – May 2015
Bachelor of Engineering — IIEST Shibpur
CGPA/Marks: 8.02/10; Focus: Electrical Engineering.

May 2008 – May 2010
Higher Secondary – 12th — Midnapore Collegiate School (WBCHSE)
CGPA/Marks: 87.6%; Focus: Mathematics, Physics, and Chemistry, and Computer science.

Jun 2005 – April 2008
Madhyamik - 10th — Keshiary High School (WBBSE)
CGPA/Marks: 93.5%; Focus: Physical science, Mathematics, Life science, and Arts.

Awards and Achievements

2011 — GEN Rank 555 (Top 0.5 percent) out of approx. 1,30,000 candidates. — Joint Entrance Exam (WBJEE)

2010 — Offered Merit Scholarship (Top 50 in State out of nearly 6,00,000 students). — Higher Secondary Exam

2009 — Certificate of merit for being placed in Statewise Top 1% and 10% at +2 level in Physics and Astronomy. — National Standard Exam

2008 — Rank 5 in Kharagpur Sub-division and Honored "Academic Distinction" for securing 100% marks in Mathematics and 99% in Physical Science. — Madhyamik

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Hard Skills ———————

Programming:

Python, Embedded C	●●●●●
Modelica, C, HTML(5)	●●●●●
Bootstrap Framework	●●●●●
CSS(3), PHP, SQL	●●●●●
JQuery, Javascript	●●●●●
AngularJs, LATEX	●●●●○
Matlab, JSON, NodeJs	●●●●○
XML, LESS, Ajax	●●●●○
C++, SASS/SCSS	●●●○○
Java, ReactJs, VueJs	●●○○○

Tools / Frameworks:

Visual Studio, MySQL	●●●●●
CodeIgniter	●●●●●
MS Office, Sublime	●●●●●
Magento (EE 1.14.x)	●●●●●
MATLAB, Simulink	●●●●○
XAMPP / LAMP	●●●●○
Jira, Git, Eclipse	●●●●○
Qt, NetBeans7	●●●○○
PSCAD (v4.x)	●●●○○
BigCommerce, AWS	●●●○○
Oracle Maxymiser	●●○○○
MongoDB	●●○○○
Salesforce, LabVIEW	●○○○○
Swing (Java)	●○○○○

Hardwares:

NRF24L01+	●●●●●
RIGOL DS1102E	●●●●●
Arduino UNO & MEGA	●●●●●
LoRa SX 12xx	●●●●○
OPAL-RT OP4510	●●●○○
PMU	●●○○○

Languages ———————

🔗 Bengali (Mother tongue)

📷 English (Professional & Daily use)

🎵 Hindi (Survivable)

Publications

Mar 2021	**Proactive feedback for networked CPS** *Ghosh and Mondal, et al.* 36th ACM/SIGAPP Symposium on Applied Computing (SAC '21)
Jul 2020	**A Programmable Open Architecture Testbed for CPS Education** *Ghosh and Mondal, et al.* IEEE Design & Test (Volume: 37, Issue: 6, Dec. 2020)

Internships and Projects

Aug 2014 – Jun 2015	**Analysis of Power System Networks for Optimal Placement of Phasor Measurement Units(PMUs)** *Department of Electrical Engineering, IIEST Shibpur* Justified the proper placement of optimal no. of PMUs in a balanced section of the DVC GRID 220KV(Existing) to make the Smart Power System Grid topologically observable.
Jun 2014 – Jul 2014	**Inflationary Universe From Einstein Gravity (Gravitation and Cosmology)** *Manipal Centre for Natural Sciences(MCNS), Manipal University* Worked on Friedmann-Lemaitre-Robertson-Walker (FLRW) Spacetimes for Flat Universe and explained inflationary universe from vaccum dominated stress-energy.

Vocational Trainings

Dec 2013 – Jan 2014	**Hydro-electric 900 MW power generation** PPSP, WBSEDCL *As Trainee Operation Engineer* Closely monitored Pump Storage Hydro 900 MW power generation, underground Power House, SCADA (Supervisory Control And Data Acquisition), 400kV GIS, and 132/33/11kV Substation.
Apr 2014 – Jun 2014	**Stadium services during Pepsi IPL 2014** Eden Garden, Kolkata *As Highmast Trainee Engineer* Monitored the lights (400V double-ended filament 2kW metal halide lamps) which provide illumination of 2,500 lux (vertical) on the pitch, 2,000 lux in the 30-yard-circle and 1,500 lux across the outfield.

Positions of Responsibility

Jul 2012 – Apr 2015	**Class and Placement Representative** EE Dept., IIEST Shibpur Elected by 63 students of EE 2015 batch for ensuring good placements and coordination between administration and students.
Oct 2011 – Jul 2015	**University Photographer** IIEST Shibpur Appointed to cover the IIEST Inaugural Ceremony, Convocation, annual Techno-Management Fest, and the annual Cultural Fest .

Extra-Curricular Activities

Social and Cultural	# Awarded Abritty VISHARAD in 2007-08 in Recitation securing 1st Class by Sarbabharatiya Sangeet-O-Sanskriti Parishad. # Certificate of "Diploma in Guitar" by Shaw Academy in 2020. # Member of Social and Cultural Committee in ATDC Department, IIT Kharagpur since 2019. # Member of IIT KGP photography club- "La Obscura" since 2019 and IIEST, Shibpur photography club- "CATHARSIS" since 2012.
Technical	Won 1st and 2nd prize (out of nearly 30 teams) as a member of group of 5 in "JUNK-E WARS" event of INSTRUO 2012 and 2013.
Games and Sports	Represented VSRC Hall, IIT Kharagpur in inter-hall Cricket Tournament in 2019-20; ATDC Department, IIT Kharagpur in inter-department RS Cricket Premier league in 2020.

April 8, 2022 **Arnab Mondal**