Curriculum vitae

PERSONAL INFORMATION

Abhik Ghosh

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PERSONAL STATEMENT

Experienced software engineer with a demonstrated history of working in the industry. Skills: Python developer, Machine learning, Cloud services, Web development, Internet of things.

WORK EXPERIENCE

06/2018–04/2020 **Research Associate/Software developer**

RWTH Aachen University, Aachen (Germany)

- Involved in National 5G Energy Platform project
- Agile (Scrum) project management
- Research in ICT, Internet of things (IoT) and IoT platform (Python, Javascript, C, C++)
- System admin: Linux and windows
- Cloud computing: AWS services (EC2, S3, lamda, Route 53, Dynamo DB) , Cloud, Web services , Openstack, Fiware
- Web development: Django, Flask, Django Rest Framework, Java scripts, HTML, PHP
- DevOps: CI/CD, Bash, Dokku server, Docker container, Kubernetes, Ansible, GitLab and GitHub
- Machine learning: Python, Tensorflow, Keras, NumPy, Pandas, data analysis
- Databases: SQL, Postgres, no SQL, influxdB, mangodB, CrateDB
- Internet Of Things: ReactJs, NodeJS, HTTP, MQTT, Web services, REST API
- Identity access management: Keycloak and AWS IAM

11/2016–06/2017 **Student research assistant**

Fraunhofer IFF, Magdeburg (Germany)

- Automation and control strategies for energy sytem
- Energy management system: Development and simulation of smart houses system in Modelica (SimulationX)

09/2010–08/2014 **Energy engineer (System engineer)**

JSW Energy, Ratnagiri (India)

- Distributed Control System (DCS) Operation in Boiler base, Turbine base and CCS mode (1200 MW)
- SCADA operation/commissioning of gas insulated substation (GIS) and switchgear system (400 kV)
- Client -server interfaces, Communication protocols: Bacnet TCP/IP, Modbus RTU, IEC 60870, Ethernet, TCP/IP
- SCADA-Trend, Data quality und Alarm analysis

EDUCATION AND TRAINING

10/2014–06/2017

Master of Science in Electrical Engineering and Information Technology

Otto-von-Guericke-University, Magdeburg (Germany)

- Specialization in Energy and Automation & Control subjects
- Energy optimization, power economics, demand response, smart grid, battery energy storage system
- Master thesis : Development of an Energy Management System for demand response program within smart DC houses
- Project : Demand response for heating and cooling purpose in smart house
- Grade 1.9

05/2009–05/2010

Post Graduate Diploma in Power Plant Engineering

JSW Energy Center of Excellence, Visveswaraiah Technological University, Bangalore (India)

- Specialization in Power system and Thermodynamics (Mass & heat transfer) subjects

05/2005–05/2009

Bachelor of Engineering in Electrical and Electronics Engineering

Visveswaraiah Technological University, Belgaum (India)

- Specialization in power system and automation
- Project: Design & development of simulator for fuel injection calibrating parameters
- 76% - "First Class with Distinction

PERSONAL SKILLS

Mother tongue(s) Bengali, Hindi

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills

- Programming Languages : Java, C, C++, Modelica, MATLAB, Python, UML, HTML, XML, Javascript
- Python developer: NumPy, Pandas, matplotlib, scikit-learn, OpenCV.
- Database: SQL, no SQL, PostgreSQL, influxdb
- DevOps: CI/CD, Bash, Docker, GitLab, GitHub, Jenkin, Ansible.
- Machine learning: TensorFlow, Keras, Data wrangling
- Cloud computing: Azure, Openstack, AWS, Docker, Kubernetes, Angular JS, Node JS
- Internet of things and web services: REST API, MQTT, HTTP, JSON, TCP/IP
- Image recognition and pattern recognition in time series data
- Modelling of LSTM-RNN, CNN, SVM, KNN, PCA, ICA and predictive algorithms
- Building automation and monitoring: OPC UA, SCADA, IEC 60870, Modbus, BACnet and DCS