

# Anirban Sengupta

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## Experience

### **Specialist Programmer**, Infosys (July 2016 - March 2020)

Lead front-end developer for Nia Automation, an Infosys/EdgeVerve product used by clients all over the world to automate enterprise workflows. Leading a team of engineers to develop:

- The React UI used to manage, monitor and automatically assign tasks to these workflows
- The Visual Studio Code extension used to design and edit these workflows
- Reusable UI components used across the Nia product line
- Public REST APIs for the aforementioned UI, VS Code extension and other clients

*Skills – React – TypeScript – Node.js – Java – Spring Boot – REST*

Previously:

- Developed a lightweight actor-based framework to monitor a large number of applications and servers, and quickly view and diagnose problems with them as they arise
- Developed the front-end for Nia Support Engineer Workbench, a product to manage and resolve service requests and tickets for various applications
- Secured multiple Nia products against threats like cross-site scripting and other injection attacks, cross-site request forgery, sensitive data exposure, etc.

*Skills – Java – Akka – Polymer – JavaScript*

### **Product Analytics Intern**, Housing.com (May 2015 - July 2015)

- Built several internal tools using Python, JavaScript, MongoDB and the Mixpanel API, making the organization's testing and deployment of web analytics much faster
- Built a Chrome extension for testing and debugging analytics data sent to Mixpanel, and a custom data visualization tool to track user conversions across channels

*Skills – Python – JavaScript – MongoDB*

## Education

### **Indian Institute of Technology Roorkee** (2011-16)

Integrated Masters in Applied Mathematics (5 year programme)

## Projects

### **Lattice-based cryptography: The NTRU cryptosystem**, for 5<sup>th</sup> year dissertation (2016)

Final year dissertation on the hard computational problems underlying lattice-based cryptography, and the security and efficiency of the NTRU cryptosystem.

### **On deterministic primality testing algorithms**, for 5<sup>th</sup> year seminar (2015)

An exposition of the AKS primality test, the first general, unconditional, deterministic, polynomial-time algorithm that determines whether a number is prime or composite.

### **Business plan competition**, IIT Roorkee Heritage Foundation (2015)

Cash prize of INR 15,000 for the business idea and strategy of a hyper-local home services application.

### **Search engine**, for 3<sup>rd</sup> year project (2014)

A PageRank-based search engine in Python, utilizing concepts taught in linear algebra and graph theory.