Anirban Sengupta

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Experience

Senior Full Stack Software Engineer, Booking.com *(April 2020 - present)*
Working on the Booking.com wallet across the full stack, contributing to the backend, frontend, infra, and Android and iOS apps.
Skills – React – TypeScript – Java – Perl

Specialist Programmer, Infosys *(July 2016 - March 2020)*
Lead front-end developer for Nia Automation, a product used by clients all over the world to automate enterprise workflows. Led a team of engineers to develop:

- The React UI used to manage, monitor and automate tasks with 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

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 5th 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 5th 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.

Search engine, for 3rd year project *(2014)*
A PageRank-based search engine in Python, utilizing concepts taught in linear algebra and graph theory.