

Kaustubh Dutta

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ABOUT ME

As a Software Engineer, I am truly fascinated by the way technology is evolving and that human race is gradually moving towards achieving an infinite paradise of knowledge. Be it the thirst to reach the unreachable territories of the universe or developing a quintessential technology to understand the solar flares or achieving a quantum computer in the planet itself is what I feel is the distinguishing character of human race that is indeed motivational and what sets us apart in this world.

Key Interests:

Product Design | Women Welfare | Geo Politics | Education | Technology | Micro & Macro Economics | Global Climate Change

EDUCATION

University of Ottawa, Canada.
Master's in Computer Science

April 2020
Grade: A | GPA: 9.0

KIIT University, India
Bachelor's - Electronics & Telecommunication | Specialization in Micro-controller Software

May 2016
GPA: 8.64/10

SKILLS

Programming Languages: JavaScript, Typescript

Library: React JS

Framework: Angular

Testing: JEST, Cypress

WORK EXPERIENCE

Nokia | Full Stack Web Application Developer – II & Project Scrum Lead | Ottawa, Canada **Feb 2024 – Present**

- Team Lead for User Manager, Group Manager and License Manager Web Application Module of Nokia's NSP Product.
- Key role in defining epics and stories based on the new features conceptualized by PLM and UX.
- Leading front-end design architecture as well as define the team capacity for each sprint.
- Release Measurement | React v18 | Module Federation | Typescript | Webpack v5 | Cypress
- Regular Expressions | Open Street Maps | AG Grid | High Charts | D3 | Formik | Lodash | Popper | CodeMirror

Nokia | Full Stack Web Application Developer - II | Ottawa, Canada **Oct 2021 – Feb 2024**

- Development of Nokia's NSP Front End using Module Federation - a key feature of webpack 5 that allows deployable modules (micro-frontend) to be loaded on demand when they are needed.
- Team Lead in the development of User Manager Module.
- React v18 | Module Federation | Typescript | Webpack v5 | JUnit
- Regular Expressions | Open Street Maps | AG Grid | High Charts | D3

Nokia | Application Developer | Ottawa, Canada **May 2020 – Oct 2021**

- Team Lead for Development of re-usable react core components in respective libraries for Nokia's NSP Product.
- Library Versioning – Semantic.
- React v16 | JavaScript | CSS Flex | AG Grid | High Charts | Regular Expression

Nokia | Software Developer and Data Scientist - Intern | Ottawa, Canada **Jan 2020 – Apr 2020**

- Development of Automated Power BI reports to track and gain insights across Software Development Teams.
- Analyzed Service Level Agreements using DAX and Power Queries to track Incoming JIRA Defect and Target Resolution Days for Nokia Software (NSW) Business Group
- Perl Scripts | Cron Jobs | MariaDB | DAX | Power BI Service

Nokia | Software Developer and Data Scientist - COOP | Ottawa, Canada**Apr 2019 – Dec 2019**

- KPI Calculations and help PMO office to drive insights.
- VBA Macros | Pivot Tables | Advanced Excel | Power Query

Capgemini Technology Services | Software Engineer**May 2016 – June 2018**

- Developed UX Wireframes.
- UI Design for Willis Insurance – single page application in Angular.
- UX wireframes in Marvel | Angular | Typescript

INTERNSHIPS**Reliance Jio | Software Engineer Intern - N/W Automation in LTE****May 2015 – June 2015**

- LTE Network Architecture | Small Cell Planning | OFDM Downlink & SC-FDMA Uplink | LTE Channel Capacity | Quality of Service (QoS) | Architecture of small / hard handoff.

Siemens Networks | Software Engineer Intern - N/W Automation**May 2014 – July 2014**

- Softstarters, Plotting & Analysis of Torque-Speed and Speed-Current curves using ABB Prosoft of 110-, 160- & 220-kW motors.
- SIEMENS SIMARIS Curves & Tripping Characteristics using SIMOCODE- Dynamic & Powerful Smart Motor Management System.
- Diesel Generator Sizing for the calculation of supplying emergency power to essential loads.
- Calculation of phase correction in AC circuits to reduce voltage and current phase difference by using Capacitor Banks.

ACADEMIC PROJECTS**Hyperledger Framework to Maintain Vehicular Depreciation and Ownership History (Master's Project)**

- Smart Contract on Hyperledger N/W to track vehicle ownership and soft attach a depreciation index to the Vehicular Identification Number (VIN) to promote Automotive Security and Privacy.
- This whole project was designed so as to have a potential course with a deliverable assignment at uOttawa for future students.

Wireless Spybot

- Wireless robot was created that worked on the basic principle of ATmega-16 microcontroller and could be maneuvered by a custom wireless remote.
- The movement of the robot was controlled by seeing the live footage that was relayed to a laptop thereby achieving a mobile security that can add a layer of safety and protection in vulnerable areas.
- Transmitter Circuit (Remote): Micro-controller: ATMEGA 16 | Encoder Chip: HT12E | Power Supply: 7805 for constant 5V DC Supply | Transmitter Chip: TX 455
- Receiver Circuit (On the robot): Decoder Chip HT12D | Driver Chip L293D | Receiver Chip: RX 455

RESEARCH PUBLICATIONS

- [Blockchain, March 2018](#) - IEEE Xplore - DOI: 10.1109/I2C2.2017.8321908 · Mar 22, 2018
- [Machine Learning and AI, March 2018](#) - IEEE Xplore - DOI: 10.1109/I2C2.2017.8321932 · Mar 22, 2018

VOLUNTEERING

- Webmaster at uOttawa
- Member at Ontario Society of Professional Engineers
- Volunteer at Canadian Blood Service