

# Deep Chakraborty

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## SUMMARY

- Full Stack developer and Master's student with four years of experience in software engineering using Agile methods; experience in mentoring interns and cross-domain collaborations; Oracle Certified Specialist.
- Developed applications in Java, Node.js, React.js, Vue.js; currently writing a MEVN app.
- Experience in developing Enterprise applications, performance optimisation, Continuous Integration.

## SKILLS

- Java, JavaScript, ES6, jQuery, Node.js, Express, React.js, Vue.js, SQL, MongoDB (NoSQL), Bootstrap, HTML5, CSS, Git
- REST APIs, JSON, SOA, ESB, XML, XQuery, WSDL, Web Service Compositions, Distributed Systems and Middleware
- JS Libraries: express, express-session, socket.io, axios, mongoose, passport, cors, body-parser, highcharts

## WORK EXPERIENCE

- |  |   |                          |
|--|---|--------------------------|
| <b>Full Stack Developer</b>  | <b>LiLab, University of Florida</b> , Gainesville, FL | <b>04/2017 - present</b> |
| <ul style="list-style-type: none"><li>• Implemented a web application product using Vue.js, Node.js, Mongo for intra-project collaborations.</li><li>• Developed dashboard using React.js and Node.js backend (MERN) to let users interact with deep learning services.</li><li>• Did NoSQL data modelling with Mongo database, and programmed REST APIs in Node.js for React/Vue to use.</li></ul>  |   |                          |
| <b>Senior Project Engineer</b>   | <b>Wipro Technologies</b> , Kolkata, India            | <b>12/2015 – 08/2016</b> |
| <ul style="list-style-type: none"><li>• Implemented follow-up-orders feature backend in a telecom Order Execution Engine in Java, which allowed users to append another subscription-order to a previous order. Helped business in boosting the total orders by 39.2%.</li><li>• Led a team of six interns to optimize four SOA-based asynchronous Service Composition algorithms and conduct performance analysis and documentation, which reduced the probability of orders getting stuck by 3.6%.</li><li>• Met and collaborated with clients in Eastern Europe, to establish system designs, which led to a \$95000 project.</li></ul> |   |                          |
| <b>Project Engineer</b>  | <b>Wipro Technologies</b> , Kolkata, India            | <b>12/2012 – 11/2015</b> |
| <ul style="list-style-type: none"><li>• Improved Order Execution Engine reliability by implementing a rollback mechanism in Java, that could store orders in queues during system failures and re-initiate them later, thus reducing the downtime to less than 3%.</li><li>• Developed and presented an automated regression testing tool architecture using Java and Groovy, as a part of Continuous Integration (CI), to enable early detection of bugs, thus reducing the overall release time by 40%.</li><li>• Engineered a reusable TCP network socket server component in Java to enable cross-domain communication.</li></ul>      |   |                          |
| <b>Software Engineer Intern</b>  | <b>Webel HCL</b> , Kolkata, India                     | <b>06/2011 – 08/2011</b> |
| <ul style="list-style-type: none"><li>• Developed the backend of 'sharing' feature of an online image portal to let users share photos with their friends.</li></ul>   |   |                          |

## EDUCATION

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|---|--------------------------|
| <b>Master of Science, Computer Science</b>  | <b>08/2016 – 05/2018</b> |
| <b>University of Florida</b> , Gainesville, FL  | GPA 3.48/4               |
| Courses: Algorithms, Distributed OS, Advanced Data Structures, Programming Language Principles, Data Mining |                          |
| <b>Bachelor of Technology, Information Technology</b>   | <b>08/2008 – 08/2012</b> |
| <b>West Bengal University of Technology</b> , Kolkata, India  | GPA 7.8/10               |

## PROJECTS

- **OneTask** (ongoing). Web based open-source software-as-a-service designed to improve team collaboration by allowing users to track and manage projects and tasks. (Vue.js, Node.js, MongoDB)
- **Scalable Bitcoin Miner** (Fall 2017). Built using Elixir and Actor model. The framework has a server/master which assigns work to distributed clients/slaves in proportion to number of cores, thus increasing scalability. (Elixir)
- **Compiler Implementation** (Spring 2017). Compiler for a programming language with a predefined lexical structure and context-free grammar, which validates syntax, does type-checking, and generates byte-code. (Java)
- **Huffman Encoder-Decoder** (Spring 2017). Built using binary heap, pairing heap, and cached optimized heap. (Java)
- **Chat Application** (Fall 2016). Web based application featuring a chat room to let users join and broadcast/unicast messages and files to other logged-in members. (Node.js, React.js, Socket.io, WebSocket)
- **GitHub Battle** (Fall 2016). React.js app letting users find out the better GitHub profile among any two. (React.js)
- **IoT over Xinu OS** (Fall 2016). IoT framework to control LEDs from a WebSocket based dashboard. (Java, C, Xinu)