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CHINMAYA DEHURY

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EDUCATION

Stony Brook University   Master of Science, Computer Science   May 2020

Courses: Big Data, Visualization, Probability and Statistics, Theory of Databases, Artificial Intelligence, Analysis of algorithms, Fundamentals of Computer Networks, Cryptography

NIT, Rourkela   Bachelor of Technology, Computer Science   May 2016

TECHNICAL SKILLS

- **Languages and Frameworks:** C++, Python, Java, D3.js, JavaScript, React.js, PHP, PL/SQL, Swift, HTML, CSS
- **Tools:** Android Studio, Git, Perforce, Eclipse, Jupyter
- **Cloud:** AWS EC2, Google Cloud, Cloudlab
- **Big Data**: Hadoop, Numpy, Pandas, Apache Yarn, SciPy, SciKit-Learn, Seaborn, Matplotlib

PROFESSIONAL EXPERIENCE

Samsung Research Institute   Software Engineer   Sep 2016 - Jul 2018

- Migrated Video and Music player app to **Android** GO keeping stability and efficiency for low- budget devices.
- Developed new features like "zoom-in navigation", battery saver. Went into production in flagship models.
- Mentored 2 new team members on android framework module, company's tools, and necessary guidelines.
- Patched 400+ issues of Samsung **Android 6.0 to 8.1** quickly without repercussions to meet project schedule.
- Technologies: **Java**, Android Studio, Design Patterns, Perforce, Git, SQL

Drishti Soft   Software Engineer   Jun 2016 - Aug 2016

- Developed backend for multiple tabs for agents, supervisors and other roles that use **REST APIs** to communicate with different internal modules and complex JOIN queries for fetching user data for the CRM of Call Center Software.
- Technologies: **Java**, Linux, Multithreading, Design patterns, Git, postgreSQL, **Java OSG,** Agile Methodologies

TATA Consultancy Services   Software Developer Intern   Jun 2014 - Aug 2014

- Created an interactive iOS app using **OOP** techniques to showcase products developed by NICHE team of TCS.
- App was appreciated by the group manager and got deployed on app store.
- Technologies: Swift, Git, Xcode, SQL

PROJECTS

Marvel Comic Universe Data Visualization - *D3.js, Javascript,* **Python***, HTML, Flask*   Apr 2020 - May 2020

- Crawled websites to collect over 160 MB of superhero data. Cleaned and merged different datasets.
- Generated interactive social network graph using d3 force layout. Built dashboard displaying stats.
- Made visualization dynamic using brushing and linking. Project judged to be in top ten projects by professor.

COVID and AQI Data Analysis - **Python***, Google Colab*   Apr 2020 - May 2020

- Collected, cleaned, fused COVID and air quality data of Washington state.
- Predicted COVID mortality for upcoming weeks using AR, EWMA methods.
- Applied linear regression, Wald's test, etc. to answer questions like "how COVID affected the AQI".

We Need to Talk – *Lua,* **Java***, HTML, Rest API*   Aug 2018 - Dec 2018

- Developed a protocol for low power wireless devices to communicate with each other and to a global server like the Gossip protocol. Used it to solve the parking lot problem.
- Network **self-balances** on failure and uses HTTP for protocol communication.

Transliteration Application – *Java, C++,* **Python**   Oct 2016- Dec 2016

- Spearheaded team of 3 in developing an **MVC** architecture-based app that transliterated regional language to English and vice versa.
- Made a custom algorithm for mapping phonetic pronunciations. Led the scrum meetings for app development.
- Used selenium with **Python** to crawl web and build extensive database of regional language words.

Smart Garbage Disposal System – *Lua, HTML, Javascript, PHP, Rest API*   Jan 2016- May 2016

- Using **ESP8266** developed an **IOT** device for measuring fill levels of garbage bins.
- Made a website to show real-time data from garbage bins distributed across a map using **Rest APIs**.
- Designed algo for garbage collection across map based on TSP algorithm. Reduced fuel consumption by **20%**