KASHISH KHULLAR

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EDUCATION

Maharaja Agrasen Institute of Technology   **Rohini, Delhi**
Bachelor of Technology in Computer Science and Engineering (CGPA: 8.56/10.00)   *Aug 2015 – May 2019*

WORK EXPERIENCE

Newgen Software Ltd   **Noida, UP**
Software Engineer   *Aug 2019 – Oct 2020*
- Worked in a team of 12 employees for a Canadian client (CMiC)
- Improved, maintained and tested existing web applications in the product suite and resolved client reported issues
- Developed and documented APIs for applications made by Android, iOS and Desktop team
- Worked on: Java, Oracle DB, PL/SQL, MongoDB, Struts, Jersey, JavaScript, HTML, CSS

Mintware Ventures   **Noida, UP**
Web Developer Intern   *Jun 2018 – Aug 2018*
- Developed a dashboard to manage company's employee details, existing projects and deployments.
- Worked on: Angular, Typescript, Node.js, MongoDB

CRIS (Centre for Railway Information Systems)   **New Delhi, Delhi**
Web Developer Intern   *Jun 2017 – Aug 2017*
- Developed a web application for exchange of goods among vendors and production units in Indian Railways.
- Worked on: Ruby on Rails, SQL, PostgreSQL, HTML, CSS, JavaScript

ACADEMIC PROJECTS

Camel [GitHub]   *May 2019*
- Developed a scalable machine learning library with Linear Regression, Logistic Regression, KNN, K-means & Perceptron.
- Technologies Used: C++, Armadillo, CMake

POS Chain [GitHub]   *Dec 2018*
- Implemented the proof of stake consensus algorithm used in Ethereum 2.0
- Technologies Used: Node.js

Decentralized Flying Ad Hoc Networks   *Aug 2018*
- Simulated the working of decentralized FANETs using Practical Byzantine Fault Tolerance as consensus algorithm.
- Collected data on throughput, latency and message overload and represented the nodes graphically.
- Technologies Used: Node.js, Vis.js, Shell Script

Nodecoin [GitHub]   *Jul 2018*
- Developed a small scale cryptocurrency based on bitcoin and proof of work algorithm.
- Technologies Used: Node.js, Express, Postman

SmartChallan [GitHub]   *Mar 2018*
- Developed APIs for SmartChallan App using Ruby on Rails as part of Smart India Hackathon – 2018.
- Technologies Used: Ruby on Rails, PostgreSQL, Postman

Document Verification Decentralized App   *Dec 2017*
- Developed a decentralised application to verify digital documents using Ethereum.
- Technologies Used: Solidity, Remix, Ganache, React, Web3, HTML, JavaScript, CSS

Referendum [GitHub]   *Sep 2017*
- Developed a web application to conduct custom polls with real time notification support.
- Technologies Used: Ruby on Rails, PostgreSQL, JavaScript, JQuery, HTML, CSS, Bootstrap, AWS EC2

PUBLICATIONS

Articles
- Implementing Merkel Tree and Patricia Trie, *Coinmonks*, 2020   **[Link]**
- Implementing PBFT in blockchain, *Coinmonks*, 2019   **[Link]**
- Implementing Proof of Stake Part 1 – 6, *Coinmonks*, 2019   **[Link]**
- Implementing blockchain and cryptocurrency with Proof of Work Part 1 – 9, *Coinmonks*, 2018   **[Link]**

Papers
- **K. Khullar**, Y. Malhotra, A. Kumar, **Decentralized and Secure Communication Architecture for FANETs using Blockchain**, *Procedia Computer Science*. 173 (2020) 158-170. doi: 10.1016/j.procs.2020.06.020
- M. Sharma, A. Raina, **K. Khullar**, H. Khandelwal, S. Mehrotra, **Scalable Machine Learning in C++ (CAMEL)**, *Advances In Intelligent Systems And Computing.* (2020) 1063-1081. doi: 10.1007/978-981-15-5148-2_91

MISCELLANOUS

- Contributed to Ethereum Improvement Proposals by drafting a token standard, *EIP – 823, 2018*   **[GitHub]**
- Contributed to the development of a landing page for the Annual Technical and Cultural event of Maharaja Agrasen Institute of Technology, *Techsurge and Mridang 2018*   **[GitHub]**

SKILLS

Proficient - C++, Node.js, Python, Git, Java, PL/SQL, HTML, CSS, JavaScript, React
Fluent - C, Ruby, Typescript, Angular, Solidity, AWS, Jupyter Notebook, Shell Script, MongoDB