

# MONU CHAUDHARY

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## Education

**Master's in Computer Science**, Miami University, Oxford, OH [Anticipated graduation May 2023]

- Writing Solidity codes for developing Ethereum blockchain application
- Research interests in Software Engineering, AI, ML, Blockchain Technologies

**Bachelor of Science in Computer Engineering**, Tribhuvan University, Nepal [Aug 2018]

- Important coursework: Data Structure & Algorithm, Artificial Intelligence, Machine Learning

## Experience

**Research Assistant**, Miami University, Oxford, OH [Aug 2021 – Present]

- Develop blockchain application on Solidity; integrated Metamask and OpenZeppelin ERC1155 APIs
- Implemented Ganache as local blockchain and Truffle for testing and deploying blockchain application
- Build front end on Next.js leveraging MaterialUI, ReactStrap, CSS, and HTML

**Teaching Assistant**, Miami University, Oxford, OH [Aug 2021 – Present]

- Assistant for the course Data Structure and Algorithm (Java)
- Assess semiweekly lab assignments and biweekly lab projects compiled using JVM
- Facilitate students understand concepts taught in class and guide through lab assignments

**Software Engineer**, Spiralogsics International, Nepal [Jun 2019 – July 2021]

- Performed requirement analysis, software development, maintenance, and code review for 3 projects
- Designed system architecture and flow charts, created software document and reported to management
- Spearheaded 2 projects with a team of 3 with a biweekly plan at professional level
- Structured projects for agile software development for continuous delivery of service
- Initiated knowledge sharing session for software development freshers and interns

**Software Developer and Intern**, Searchable Design, Nepal [Sep 2018 – Jun 2019]

- Developed Insurance Management System for Benekiva based on Angular, Node.js, Express.js
- Wrote stored procedures and handled database queries for Pharmacy Management System
- Gained experience as an intern for 2 months and got promoted to software developer position

## Academic Projects

**COVERT: Secret Messaging through image steganography and face recognition** [2019]

- Implemented Local Binary Pattern Histogram (LBPH), Viola-Jones, Haar-Cascade classifier
- Built using OpenCV, Cryptography (RSA), Django, PostgreSQL

**Tourist Helper Bot** [2018]

- Created both android interfaces for users to search tourist destinations, hotels, and guides
- Technologies: Machine Translation, Sequence to Sequence model, LSTM architecture, Attention Mechanism

**eCommerce Recommender System** [2017]

- Devised a Collaborative Filtering based recommendation system
- Employed algorithms: Pearson's Correlation Coefficient and Bisecting K-means Clustering

## Skills

Python, C++, Angular, Node.js, Reach.js, VB.net, C#, Java, Solidity, MongoDB, MySQL, Latex, Git

## Activities

- Volunteered for a non-profit organization in Nepal named "Hamro Sano Prayas" [2020]
- Completed Artificial Intelligence Micromasters' course offered by Columbia University [2019]
- Secured 3<sup>rd</sup> place at Nepalese Scientific Association in Switzerland for "AR Learn" [2018]
- Received AI Fellowship for one year at Fusemachines Nepal Pvt. Ltd. [2017]