

# Abhinav Khare

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- EDUCATION** **Indian Institute of Information Technology Allahabad** Expected July 2019
- Bachelors of Technology in Information Technology.
  - CGPA (After 6 semesters): 8.49/10
  - **Relevant Coursework:** Software Engineering, Object Oriented Methodology, Database Management Systems, Operating Systems, Computer Organization & Architecture, Data Structures, Design, Analysis of Algorithms
- EXPERIENCE** **Google Summer of Code Student** May 2017 - July 2017  
FOSSASIA, Singapore
- Implemented flask framework programming fundamentals as part of the event organization server for FOSSASIA, with a focus on normalization.
  - Organized the processes around decoupling of back and front end with a focus on a complete redesign of the front end.
- Remote Developer Part-time Intern** August 2017 - December 2017  
FOSSASIA
- Continued to work on the GSoC Open Event Project in an official capacity, as a remote developer
- Summer Research Intern** May 2018 - July 2018  
Universita Degli Studi di Messina/ Smartme.io Messina, Italy
- Worked on pioneering database tech - BigchainDB to replace CKAN based centralized data store of SmartME Project (smartme.io)
  - Engineered a new decentralized storage architecture to accumulate readings from IoT Sensors spread across the city of Messina along with a novel data source verification mechanism.
- Google Summer of Code Mentor** May 2018 - August 2018  
Open Event Project, FOSSASIA
- Supervised the Open Event project as the lead mentor during GSoC 2018.
  - Played key role in transition from legacy system a new version
- Developer Intern** January 2019 - June 2019  
TL Labs, Nanyang Technological University, Singapore
- Will be working on engineering and designing a novel text editor, which automates the process of transcription verification in an NLP context.
- Summer School Student** June 2016 - July 2016  
Harvard University, Boston, MA
- Introduction to programming course
- PUBLICATIONS** Khare, Abhinav, et al. "Trust-less Smart City: the #SmartME approach." *Submitted to 5<sup>th</sup> IEEE World Forum in Limerick, Ireland, 2019.* In review
- Khare, Abhinav, et al. "Learning the Goal Seeking Behaviour for Mobile Robots." *2018 3<sup>rd</sup> Asia-Pacific Conference on Intelligent Robot Systems (ACIRS). IEEE, 2018.*
- Patel, A. S., Ojha, M., Rani, M., Khare, A., Vyas, O. P., & Vyas, R. (2018, June). Ontology-Based Multi-agent Smart Bike Sharing System (SBSS). *In 2018 IEEE International Conference on Smart Computing (SMARTCOMP) (pp. 417-422). IEEE.*

## SELECTED PROJECTS

**Verifiable IoT Data Exchange** :- Semester project which iterates on the data verification wizard developed during internship in Messina. It combines the wizard with the distributed database - bigcaindb and runs on a cluster of nodes. The platform allows the users to confidently sell and exchange data on account of it being verifiable

**Regression based Motion Planning**:- Implemented a neural network to simulate a robot to navigate obstacles and reach its goal using reinforcement learning. Compared results and accuracy by contrasting supervised learning approach with reinforcement learning approach.

**Flash Cards**:- Using UI/UX research, a minimal react JS based flash card app was developed, best designed to soothe the user and visually aid him/her while memorizing keywords. The app was published as an Open Source project and received critical acclaim from the community.

## ENTRE- PRENEURSHIP

**Hack In The North**, Lead Organizer

- Organised third edition of one of the most successful student held hackathon of India
- Secured sponsorship in excess of 5000\$ for the event including Python Software foundation, Github, Heroku, Consensys.

## COMMUNITY INVOLVEMENT

**Technical Secretary**, Student Body IIIT Allahabad

- Elected as the technical secretary of the batch.
- Supervised the 9 technical wings of the tech society - GeekHaven
- Negotiated fundings, and oversaw the functioning of technical fest - Aparoksha

**Web Development Wing Member**, Geekhaven

- Selected as a web developer in tech society of IIIT Allahabad.
- Conducted Workshops to teach web development to freshmen.

**Google Code In 2018**, Mentor for FOSSASIA

- Guided young students to begin their journey into open source
- Created and reviewed the tasks assigned to students during program.

## EXTRA-CURRICULAR

- Head of Web Operations, Effervescence'17 - Cultural Fest, IIITA
- Head of Web Operations, Aparoksha'17 - Technical Fest, IIITA
- Head of Web Operations, Asmita'18 - Sports Fest, IIITA
- Organizer, IIITA Hacks - Promotional Hackathon
- Organizer, OpenCode - Promoted open source during winter break
- Member, Acoustic and Media Society, IIITA

## CONFERENCES & TALKS

- Speaker, **Google Summer of Code Mentor Summit'18** Sunnyvale, USA
- Speaker, **FOSSASIA Summit 2018** Singapore
- Attendee, **IEEE International Conference on Smart Computing'18** Sicily, Italy