

Rohan Patil

☎ (+1) 8583463887 | ✉ rpatil@ucsd.edu | 🏠 rohanpatil.me | 🖥️ bridgesign | 📞 Rohan Patil | 📺 rohan-ppatil

EDUCATION

University of California San Diego

Ph.D. Student, Computer Science (Advisor: Henrik Christensen)

M.S. Computer Science and Engineering, CGPA 4.0

California, USA

Sept. 2023 - present

Sept. 2021 - June. 2023

Indian Institute of Technology Gandhinagar

B. Tech, Computer Science and Engineering, CPI 9.55/10 - INSTITUTE SILVER

Gandhinagar, India

2017 - 2021

INTERNSHIPS

The Trade Desk

POSITION: SOFTWARE ENGINEER INTERN

Irvine

June - Sept 2022

- Scalable modelling of user Monetary value and conversion probability
- Created a testbed to check the model outputs and interpretation of results.

Gryt India Pvt Ltd

POSITION: SOFTWARE ENGINEERING INTERN

Pune (WFH)

May-Oct. 2020

- Designed part of API backend for exercise management system and developed step detection algorithm for video data
- Developed an exercise step detection algorithm for videos and pose detection

PUBLICATIONS & POSTERS

- **Rohan Patil**, Alexander Langley, Henrik Christensen
Scaling up multi-agent patrolling in urban environments. Proc. of SPIE Vol. 12544 2023
- Janvi Thakkar, Devvrat Joshi, Shril Mody, Siddharth Soni, **Rohan Patil**, Nipun Batra
Geometrical Homogeneous Clustering for Image Data Reduction ICML 2021 SubsetML Workshop - Poster Presentation 2021
- **Rohan Patil**, Raviraj Dave, Harsh Patel, Viraj M Shah, Deep Chakrabarti, Udit Bhatia
Assessing the Interplay between travel patterns and SARS-CoV-2 outbreak in realistic urban setting Applied Network Science 2021
- Rithwik Kukunuri, Anup Aglawe, Jainish Chauhan, Kratika Bhagtani, **Rohan Patil**, Sumit Walia, Nipun Batra
EdgeNILM: Towards NILM on Edge devices BuildSys 2020 - **Core A Ranked Conference** 2020

SKILLS

PROGRAMMING Python, C/C++, \LaTeX , Verilog, Rust, Go, SQL, Scala
WEB DEVELOPMENT Django, CSS, HTML5, JavaScript, GraphQL
LIBRARIES PyTorch, TensorFlow, Numpy, Pandas, Jupyter, Scipy

PROJECTS

- GRAIVATIONAL WAVE DETECTION USING APPROXIMATE RANDOM SEARCH 2018-2020
- SHORT SURVEY ON DEVELOPMENT OF DATA DRIVEN TECHNIQUES IN ONLINE ADVERTISING June 2020
- COVID19 DASHBOARD (Python, Django) covid19.iitgn.ac.in - Design, Backend and Deployment May 2020
- SEMANTICALLY SENSIBLE THESAURUS (NLP, Python) - Word suggester preserving semantics Nov. 2019
- EMAIL PARSER (Python, Stanford NLP API, Gmail API) - Extracting event details from unstructured data Jan. 2019

EXTRACURRICULAR & POR

- **Teaching Assistant** for ES654 - Machine Learning (IITGN) Spring 2020
- **Teaching Assistant** for CS301 - Operating Systems (IITGN) Fall 2020
- Secured silver medal in Saptang's Network Security Hackathon - Inter IIT Tech Meet 9.0 March 2020
- Won first cash prize of INR 5000 for reporting bugs in IITGN internal network March 2020
- Volunteered for organization of **ACM-India Annual Event** Feb. 2020
- Member of the **Conclave and Symposium** team of **Amalthea** (IIT Gandhinagar's Tech. Summit) for two years 2017 - 2018