Ujjwel Balwal

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EDUCATION

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING

BE Computer Science

2017 - 21 | Chennai, IN
Cum. GPA: 8.1 / 10.0

Member: Competitive Coding Club
Class representative: SPOC

LINKS

Github.com/ **zeroinverse**
LinkedIn.com/ **in/ujjwel**

COURSEWORK

GRADUATE

Theory of Computation
Algorithm Design and Analysis
Data Structures
Compilers + Practicum
8086 & MIPS
Operating Systems
Computer Networks
Database Management Systems
Mobile Development

ADD. CERTIFICATIONS AND COURSES

Algorithm Design - PENN
Machine Learning - Stanford
Data Science Methodology - IBM
AI on the Edge - Intel *(in progress)*

SKILLS

PROGRAMMING

Python • C++ • C
Java • HTML • SQL
Assembly • LaTeX
Hardware:
ESP32 • CC3D
Platforms:
ESP-IDF • Android • MySQL
OpenPilot • Arduino IDE

EXPERIENCE

ADMATIC SOLUTIONS | Computer Vision Intern

Oct 2019 - Dec 2019 | Chennai, IN
- Worked on problems related to Computer Vision, Deep Learning, and Embedded systems.
- Tech-stack: Gesture recognition Toolkit, OpenAI Gym, ESP32, OpenCV.

CONTROLLER OF EXAMINATIONS, SSN UNIVERSITY

Lead Developer: Revaluation Submission System

Aug 2019 – Oct 2019 | Chennai, IN

- Designed the architecture of in-house revaluation application and tracking system. The system is deployed in the institution's intranet.

PROJECTS

FOREST FIRE DETECTION | Internally Funded Project

sanctioned amount: Rs 25,000/-

Aug 2018 – Aug 2019 | Chennai, IN
Worked on an internally funded project aiming to create a prototype drone, capable of autonomously monitoring a forest area for fires and raise an alarm in case of one; resulting in early mitigation and minimal damage

PUBLICATIONS

BOT ASSISTED SOFTWARE DEVELOPMENT | Research Paper

"International Journal of Innovative Technology and Exploring Engineering (IJITEE)" [Scopus indexed], ISSN: 2278-3075, Volume-8 Issue 6-S, April 2019 • Received Best Paper Award

FOSSIL FUEL EMISSION PREDICTION SYSTEM

Paper Presentation

International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019)

FOREST FIRE DETECTION USING IMAGE PROCESSING

Paper Presentation

International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019)

POSITION OF RESPONSIBILITY

Organizer	Invente 2k19	Flagship event of college Tech Fest
Education Volunteer	Defence Expo 2k18	International Exhibition
School Captain	School Pupil Leader	Kendriya Vidyalaya No. 1

AWARDS

2018	Winner	Big Data Analytics Workshop case study — ACM College Chapter
2017	Recipient of full waiver scholarship for Bachelors Degree — All India Council of Technical Education
2014	Certificate of Honor	National winner - Gurutsav — Dept of Human Resource Development, Govt of India
2013	Certificate of Appreciation	National Science Congress (NCSC) — Dept of Science, Govt of India