

Ganesh Raghavendran

<https://cprganesh.com> | cprganesh@gmail.com | [linkedin.com/in/cprganesh](https://www.linkedin.com/in/cprganesh)
+1 858-214-9303 | San Diego, CA

EDUCATION

MASTER OF SCIENCE (MS) - CHEMICAL ENGINEERING

Sep 2019 - Jun 2021 (Expected)

UNIVERSITY OF CALIFORNIA, SAN DIEGO

BACHELORS OF TECHNOLOGY (B.TECH) - CHEMICAL ENGINEERING

Jul 2013 - Aug 2017

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI, INDIA

EXPERIENCE

SENIOR ENGINEER (PROCESS) | GAIL INDIA LTD.

Aug 2017 - Jul 2019

- GAS CRACKING UNIT

- Managed and Operated 900KTA capacity GCU I unit of PATA Plant as a Field Engineer
- Trained in Yokogawa and Emerson Distributed Control Systems
- Monitored the running operations of Furnace, Quench Tower and DM Water units.
- Executed the planned startups and shutdown of 12MW Cracked Gas Compressor

CHEMICAL ENGINEERING INTERN | RELIANCE INDUSTRIES LIMITED

May 2016 - Aug 2016

- AMINE TREATMENT UNIT

- Analyzed the Ammonium Bisulphide corrosion in ATU Overhead Circuit
- Worked with ASPEN HYSYS and PetroSim Simulation tools
- Proposed 4 possible solutions with varied feasibilities

SOFTWARE ENGINEERING INTERN | MONITPRO SOLUTIONS PVT. LTD.

May 2015 - Oct 2016

- DATA INTERPRETATION PORTAL

- Facilitated in setting up the Real-Time data integration for the medium-scale chemical industries
- Designed web applications for Treemap view of equipments and KPIs
- Developed using VB.Net and C#

PROJECTS

TEM DIFFRACTION GRAPH CONSTRUCTION USING PYTHON | UCSD

May 2020

- Project based on Python2 environment to obtain diffraction graphs for TEM images
- Used python2 library to extract image and info from .dm3 files and used for reconstruction
- Used libraries like numpy,cv2 and matplotlib to do image processing and construct graphs

IMPROVING THE EFFICIENCY OF GSU | GAIL INDIA LTD.

Apr 2018

- Enhanced the Gas Sweetening Unit(GSU)absorption rate in a simulated environment
- Modeled the unit using piperazine as activator in place of a proprietary activator
- Simulated the model with ASPEN HYSYS and MATLAB

SARANSH - WEB P&ID PORTAL | GAIL INDIA LTD.

May 2019

- Digitalized the P&IDs of the plant by crowd sourcing the data from employees
- Designed and Developed a web portal for viewing and editing the digitalized P&IDs
- Included smart search of P&IDs based on equipment tag and line tag
- Set up front-end and back-end with AngularJS, PHP

AWARDS AND POSITIONS

- 3RD PLACE - 108 EMERGENCY HACKATHON 2017

- Designed and Developed a mobile app and corresponding web app to issue and monitor emergency calls

- REGIONAL LEVEL PARTICIPANT - WORLD SKILLS COMPETITION 2017

- Represented the state of Tamilnadu in Web Development Category at World Skills Competition 2017

- HEAD OF WEB DEVELOPMENT - FESTEMBER 2016

- Designed, Developed and Monitored the Web Operations for the NIT Trichy Cultural Fest, Festember 2016

SKILLS

- CHEMICAL ENGINEERING
 - Plant Operation, SOPs, PID
- TOOLS
 - Aspen Hysys, Matlab, AutoCAD, GIT, Vim,
- WEB DEVELOPMENT
 - HTML, CSS, Javascript, JQuery, AngularJS
- PROGRAMMING
 - C, C++, Python, PHP, Java, SQL, VB.Net
- OPERATING SYSTEMS
 - Linux, Windows

COURSEWORK

- GRADUATE

- Nanoscale Modeling, Nano Engineering

- UNDERGRADUATE

- Fluid Mechanics, Mass and Heat Transfer, Chemical Reaction Engineering, Materials Science, Bio Engineering