

Samarth Halyal

samarthhalyal@csu.fullerton.edu | +1 (657) 556-5984 | Fullerton, CA | [linkedin.com/in/samarth-halyal](https://www.linkedin.com/in/samarth-halyal)

EDUCATION

California State University, Fullerton, CA

Aug 2022 – May 2024

MS in Computer Science 11.0701.

Visvesvaraya Technological University, Belgaum, India

July 2015 – Jun 2019

B.E. in Computer Science and Engineering. GPA: 8.25/10

PROFESSIONAL EXPERIENCE

EIP IT Student Assistant (Salesforce/ Marketing Cloud)–Fullerton, CA(Assistantship) Oct ‘22 – Current

- Customer Relationship Management using Salesforce Cloud Services- On-Campus work.

Mistral Solutions – Software Design Consultant, Bangalore, India (Full-time). Sept 2021 – Dec 2021

- Individual critical project handling for the embedded sector. Brainstorms and suggestions on software designs for Embedded C++ and VxWorks. Qt and C++ training for freshers at Mistral.
- Worked on Networking and Wireless programming with GPS Meinberg Antennas used to read precise timing from satellites.

Mistral Solutions – Software Design Engineer, Bangalore, India (Full-time) Jan 2019 – Sept 2021

- Designed, Developed, and Delivered critical projects mainly involved writing drivers for VxWorks and Linux operating systems using C/C++, Shell Scripting, and Python. Complete UI/UX design in Qt Creator.
- Worked on projects involving high-speed data transmitter-receiver systems involving Vertix-9 FPGA.

iO Genesys, Inc – Oklahoma City, OK (Remote, Internship) Oct 2017 – Nov 2018

- Worked on a web-based engine that enables synergy between two independent server applications using AngularJS, NodeJS, and Ajax.
- Learned management skills and web development from a skilled manager and Shaolin Monk.

SKILLS

- **Programming skills:** C/C++, Java, Python, JavaScript, Go-Lang, Angular, Shell, ML/DL, RPA, Advanced Algorithms- Backtracking, dynamic programming, Agile and Scrum, Design Patterns.
- **Software:** Qt Creator, MP LAB, MATLAB, Tensor Board, Agile, Scrum tools, VxWorks, Linux/Unix.
- **Other soft skills:** Microsoft Word, Excel, PowerPoint, Adobe XD, AI, Photoshop, Writing in APA, MLA.
- **CRM Tools for Salesforce.**
- **Blockchain-** Solidity, Infura, Ganache, Truffle, Node.js, Web3.

PROJECTS

Dynamic Story Generation using LSTM Recurrent neural networks 2019

- Generate a new random story using an already trained model saved in the h5py file. The Modeling was written and trained using TensorFlow in Python.
- Involved long-short-term memory units for recurrent neural networks. Trained the books of Harry Potter by R. K. Rowling to build a database that will be accessed while predicting words.
- Authorized and published a research paper regarding an issue while training the model, paper was published at MECS Press, IJEME Volume 9 Number 6, 2019: <https://tinyurl.com/bdhv2sns>

Electronic Control Unit 2020

- Handled from requirement collection to the deployment stage.
- Managed a team of four consisting of three developers and one tester.
- Used C++ in Qt for front-end UI and Embedded C for PIC32MK and PIC32MX microcontrollers.

Correlative Interferometry 2021

- Involved in driver development and testing on VxWorks for the Interferometry technique designed on Vertix-9 Xilinx FPGA and data collected on VxWorks processors.
- Command processing to and from FPGA and external Windows system.

INVOLVEMENT AND LEADERSHIP

- All India Magazine Campus Ambassador – Involved in conducting ML/AI-related activities like talks and awareness about recent developments in the field of Artificial Intelligence on the college campus.
- Google I/O Student Ambassador – Lead the Google I/O program on campus by conducting events organized by Google.
- College Placement Office Assistant –Acting as a communication link between the placement officer at the college and students.
- Lead a team of four and was awarded in cash prize, in a previous organization for satisfactorily designing, developing, and delivering a time-critical project to clients.