

# Mathew Thomas

(Permanent Resident)

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## Summary

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Detailed, analytical and client-oriented professional seeking a software engineering position to pursue a successful career in software development. Having 3 years of electrical engineering experience and looking to join a progressive tech company where my technical skills will be fully harnessed.

## Professional Skills

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- HTML5, CSS3, Ruby, JavaScript, jQuery, Responsive Design, Bootstrap, React.js, Node.js, MongoDB, MySQL, Heroku.
- Security and Session Storage, and User Authentication.
- Visual Studio Code, Git, GitHub, Microsoft Office Suite.

## Certifications

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- Dow Certifications in safety training and MOD V DCS.
- Yokogawa Technical Certifications in: DCS Engineering & Maintenance, Prosafe RS Engineering, STARDOM with FAST/TOOLS SCADA, Field Bus Engineering & Field Instruments for Process Control.
- Quality Generalist Training by Wollam Petroleum Advisory Group.
- AutoCAD 2014 Certified Professional.

## Education

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### University of Texas at Austin Boot Camps (Part-Time)

#### Software Engineering and Development, December 2019

HTML5, CSS3, JavaScript, Ruby, jQuery, AJAX, Responsive Design, Bootstrap, React.js, Node.js, MongoDB, MySQL, Heroku, Security and Session Storage, and User Authentication. Part time course that does not interfere with weekday schedules and available to work full time (40+ hours).

### App Academy (Online)

#### Software Engineering and Development, September 2019

Currently undertaking the online curriculum offered by App Academy. Basic + Intermediate Ruby, Object-Oriented Design, Basic Algorithms + Data Structures, Computational Complexity, Intermediate Algorithms, Advanced Data Structures

### University of Houston, Graduated May 2016

#### Masters in Electrical Engineering, GPA: 3.4/4.0

Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Database Systems, Digital Video, Digital Control Systems, State Space Control Systems, Linear Multi-Variable Control Systems.

### Vellore Institute of Technology, India, Graduated May 2013

#### Bachelor of Technology in Electronics, GPA: 8/10

Relevant Coursework: Computer Architecture, Data structures, Algorithms, Software Foundations, Digital Signal Processing, Control Systems, Semiconductor Devices and Circuits, VLSI, Process Control, Process Automation, Electrical and Electronic Instrumentation, Industrial Instrumentation.

## Employment History

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### The Dow Chemical Company

#### Process Automation Engineer

#### Baton Rouge, Louisiana, August 2018 - September 2019

Worked on FORTRAN based DOW control system (DOWTRAN) programming and automation projects. Worked on code modification for GE/PEG plant to include warning alarms and permissive actions. Tuned PID, constraint controllers and performed scale fraction math calculations on DOWTRAN code. Performed MOD difference report edits and code compilations for upcoming code loads. Performed code loads during turnarounds as per plant schedules.

# Projects

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- Coding Project list:  
<https://iilmtii.github.io/Portfolio-/#Portfolio>  
-UT Austin Bootcamps
- Stability Control Using Pole Placement – University of Houston, 2015.
- MPEG Video Animation Using C - University of Houston, 2014.  
**Third Prize, Video Animation Project (2014):** Awarded 3<sup>rd</sup> prize for video animation project, out of class total of 20 projects.
- Self-Healing of LTE Networks – VIT University, 2013.

# Links

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- **GitHub:**  
<https://github.com/iilmtii>
- **Portfolio:**  
<https://iilmtii.github.io/Portfolio-/>

Created modern web based operator UI from legacy CAN diagrams using Javascript, HTML, CSS/SASS and AJAX calls for asynchronous APIs.

## Planet Forward (WM Engineering Contractor)

### Controls/SCADA Engineer

**Houston, Texas, July 2018 - August 2018**

Worked as a Controls Engineer contracted by Honeywell to work on Honeywell C300 graphics for Kuwait Integrated Petroleum Industries Company for Al Zour Refinery Expansion. Performed Cause and Effects verification of interlocks present on HMIWeb graphics. Developed web interface and linking of graphics from DCS server. Performed pre-fat testing with FDH JV team for Process, DCS and IPS graphics for Units 31 and 62

## Hargrove EPC

### Controls and Automation Engineer

**Houston, Texas, May 2017 - April 2018**

DCS configuration and web linking of I/O points and modules on client's side server. Created responsive web pages for operators using Javascript, HTML, CSS/SASS and AJAX calls for asynchronous APIs.

Project 1: SI Group Honeywell TDC to Delta V Migration, Freeport, TX, May 2017.

Project 2: Albemarle JBC TPPBA Delta V Expansion, Safi, Jordan, August 2017.

Project 3: Total Honeywell Experion C300 Migration, La Porte, TX, November 2017.

Project 4: Lyondellbasell – Equistar Honeywell Experion Migration, Westlake, LA, December 2017.

Project 5: Cardinal Group Shire UF/DF Skid Delta V Expansion, Lexington, MA, November 2017

## BL Technology

### Engineering Intern

**Tomball, Texas, March 2017 - May 2017**

Worked on City of Houston wastewater treatment plant's PLC replacement. Assisted the team on tag matching Siemens SIMATIC S7 300 PLC, HMI databases and web development. Verified I/O module tags with CAD drawings. Prepared Operations and Maintenance manuals. Created responsive web pages to display manuals for clients using Javascript, HTML and CSS.