

Mathew Thomas

(Permanent Resident)

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Summary

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

- 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

- UT Austin Coding Bootcamps – June 2020
- Dow Certifications in safety training and MOD V DCS.
- Yokogawa Technical Certifications in: DCS, Prosafe RS PLC, Field Bus Engineering & Field Instruments for Process Control.
- Quality Generalist Training by Wollam Petroleum Advisory Group.

Education

Georgia Institute of Technology

Master of Science in Computer Science (Online, Part-time),
August 2020 – Present

University of Texas Austin Boot Camps, Completed June 2020

Software Engineering and Development

HTML5, CSS3, JavaScript, Ruby, jQuery, AJAX, Responsive Design, Bootstrap, React.js, Node.js, MongoDB, MySQL, Heroku, Security and Session Storage, and User Authentication. 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

State Farm – Digital Assets & Strategy (Enterprise Technology)

Software Developer (Full-Stack)

Bloomington, Illinois, June 2020 - Present

Created the Statefarm Dashboard UI using Node.JS, Angular.JS, GraphQL and PostgresDB for end users and agents to analyze and aggregate customer data to provide competitive insurance policies. Co-developed with EY consultants to graphically aggregate existing data using Neo4j for policy recommendation searches.

Projects

- **Coding Project list:**
<https://portfolio-lmt.herokuapp.com/#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 3rd prize for video animation project, out of class total of 20 projects.
- **Self-Healing of LTE Networks** – VIT University, 2013.

Links

- **GitHub:**
<https://github.com/IMLMT>
- **Portfolio:**
<https://portfolio-lmt.herokuapp.com/#Portfolio>

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. Created modern web based operator UI from legacy CAN diagrams using Javascript, HTML, CSS/SASS and Ajax/Axios calls for asynchronous APIs. Created CLIs using NodeJS, Server/routes using Express and stored user info on MySQL.

Planet Forward (Contract)

Controls/SCADA Engineer

Houston, Texas, July 2018 - August 2018

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/Axios 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.