Mathew Thomas
(Permanent Resident)

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Summary

Creative, detailed and analytical engineering professional seeking to pursue a successful career in software engineering. Having 4 years of professional experience and looking to join a progressive tech company where my technical skills will be fully harnessed.

Professional Skills

- HTML5, CSS3, JavaScript, jQuery, Bootstrap, React.js, Node.js, MongoDB, Spring Boot, MySQL, PostgreSQL, Heroku.
- Security and Session Storage, and User Authentication.
- Visual Studio Code, Git, GitHub.

Certifications

- UT Austin Coding Bootcamps certificate
- Dow Certifications in safety training and MOD V DCS
- MEE from University of Houston
- B. Tech. Electronics from VIT University

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, 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
Master of Electrical Engineering
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
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
Worked on creating Statefarm Dashboard UIs using Node.JS, React.JS, Spring Boot and PostgresDB for agents to analyze and aggregate customer data to provide competitive insurance policies. Co-developed with EY consultants to migrate existing customer data using Streamsets pipelines and python libraries to Neo4j DB for better customer recommendations and data analysis. Building ETL pipelines on Streamsets for data ingestion into Neo4j DB for subsequent iteration of the Customer Graph.

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. 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.