

James Carlu

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Motivated engineer skilled at solving complex technical issues and visualizing the big picture from a strategic perspective. A critical thinker who strives for excellence in both a team and individual environment. Seeking an opportunity to utilize my engineering background and my recent education and training in software development.

Technical Skills

- **Object-Oriented Programming:** Java
- **Web Application Development:** HTML, CSS, JavaScript, JSP, Spring Web MVC, Tomcat, Vue.js
- **Database Programming:** PostgreSQL, E/R diagrams, JDBC
- **Development tools and techniques:** Agile, Unit Testing (JUnit), Integration Testing, Git, Eclipse, TDD

Education

Tech Elevator - Detroit, MI

Jan 2020 – April 2020

Completed a 14-week coding bootcamp learning how to develop dynamic web-based software systems using Java OOP, Javascript, Spring MVC, HTML, CSS, Vue, PostgreSQL, testing techniques, clean code methodology, and agile development.

University of Michigan - Dearborn, MI

Sep 2007 – Apr 2010

Master of Business Administration - *Graduate with Distinction*

Lawrence Technological University - Southfield, MI

Sep 1998 – Apr 2002

Bachelor of Science in Electrical Engineering - *Graduated Magna Cum Laude*

Technical Projects

Comic Book Collection Website

- Used agile methods to create a comic book collection website allowing users to organize their personal collections and add comics to their profile from a third party API. Built with Vue.js, REST, Java, PostgreSQL.

My Wedding Website

- Created a website containing “our life together” photo gallery, venue information, wedding party introductions, RSVP capability, and things to do around Detroit. Built with Vue.js, REST, Java, PostgreSQL.

COVID-19 Data Presentation

- Created a web application that pulled COVID-19 statistics from third party API’s and rendered that data into graphical representations using Chart.js. App built using Vue javascript framework and Chart.js charting library.

Crossword Puzzle

- Created a web application using HTML, CSS, and Javascript for a crossword puzzle with clues based on programming and technology. Letter boxes change class based on correct or incorrect input.

National Park Information Web App

- Created a web application using Spring MVC that displays data about national parks. Reads in data and saves survey data from/to a database. Uses a controller to execute the post/redirect/get pattern. Container responsiveness design.

National Park Campsite Reservation Program

- Created a CLI program using Java and PostgreSQL to accept campsite reservations and save them to a database.

Vending Machine Application

- Created a CLI program using Object-Oriented Programming to architect and develop vending machine functionality. Used File I/O to import inventory csv file and export a transaction log.

Professional Experience

Ford Motor Company, Dearborn, MI

Global Cycle Planning Analyst

April 2017 – July 2019

- Acted as Key Gateway Agent for annual product planning process including vehicle lifecycle, electrification, powertrain, safety, and fuel economy. Collaborated with Finance, Engineering, Marketing, and IT teams to develop POV for executive review on vehicle product and lifecycle change requests.

Technology Planning Analyst for Next-Generation Electrical Architecture

July 2014 – April 2017

- Led cross-functional research team to create definition of Ford’s next-generation Fully Networked Vehicle electrical architecture for over-the-air software updates and data collection; developed migration plan for implementation.
- Collaborated with Engineering Control Unit (ECU) Teams, Marketing, Finance, IT, and User Experience (UX) to develop ECU requirements and desired UX features within the constraints of Finance and IT.

Lear Corporation, Southfield, MI

Electrical Integration Engineer for Lear Seating Division

May 2009 – June 2014

- Responsible for integration and packaging of all electronic components into seats for new programs.
- Designed and maintained the wiring design for all existing tier 2 seating programs.

Commercial Manager and Product Engineer – Foreign Service Assignment – Sao Paulo, Brazil

Nov 2008 – April 2009

- Developed electrical distribution business unit for Lear’s first South American electrical business award.

Product Engineer: Electrical Systems Division

November 2004 – June 2007

- Responsible for the design, development, and successful launch of several major wire harnesses including the instrument panel, body, headliner, and other wire harness assemblies.