

**Siddharth Mathiazhagan**  
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## EDUCATION

**The Ohio State University**, Columbus, OH  
Masters, Computer Science and Engineering

*August 2018 – May 2020*  
*Overall GPA: 3.85 / 4*

**Related Coursework:** Analysis of algorithms, Advanced AI, Machine Learning, Advanced Operating Systems, Parallel Computing, Data Mining, Computer Vision

**VIT University**, Vellore (India)  
Bachelors, Computer Science and Engineering

*July 2009 – May 2013*  
*Overall GPA: 8.68 / 10*

## SPECIALIZED SKILLS

### Programming Languages

C++, Java, Python

### Web Technologies

HTML5, CSS3, JavaScript, AngularJS, jQuery, ReactJS

### Database

MySQL, SQLite, MongoDB, PostgreSQL

### Others

Apex, VisualForce, XSLT, Git, SOAP, REST, JIRA

## WORK EXPERIENCE

**Ohio State University**, Columbus (Ohio)  
*Graduate Research Associate*

*August 2019 – Present*

- Developing a GIS based tool to analyze incidents of opioid overdose in the region of Franklin County, Ohio.
- Technologies Used: *ReactJS*

**Astute Solutions**, Columbus (Ohio)  
*Software Engineer Intern*

*June 2019 – August 2019*

- Built a model to perform the task of intent matching by finding most similar sentences for a sentence using word2vec model and cosine similarity score. Also, perform the task of slot filling by training a CRF model on the slots in a knowledge base.
- Technologies Used: *Python, Spacy, Snips*

**Schneider Electric**, Bangalore (India)  
*Senior Analyst – Technical*

*July 2013 – July 2018*

### Integration Framework for Schneider Distribution Centers

- Developed a new interface to automate process of inventory synchronization saving 3 hours of manual work per day.
- Improved performance of existing order synchronization process for orders greater than 10000 order lines from 4 min to 30 secs.
- Developed a web based portal to display data statistics as well as a dashboard to display failed messages along with an option to reprocess them.
- Technologies Used: *Java, Opentext BPM, XSLT, HTML, CSS, JavaScript, Jboss*

### Partner Community Portal

- Involved in building a web based portal for Schneider Electric partners on Salesforce CRM platform for them to access information about Schneider Electric products, programs, training etc. Partners would be able to participate in programs and complete activities to gain points and redeem them for gifts.
- Technologies Used: *Salesforce CRM, Apex, Visualforce, AngularJS, HTML, CSS*

### Data connector for Schneider e-commerce

- Implemented SOAP and REST APIs to allow synchronization of account and contact data between Salesforce and Schneider e-commerce portal.
- Used OAuth2 to authorize OpenText BPM to access data from Salesforce and 2-way SSL authentication to establish connection with Schneider e-commerce.
- Technologies Used: *OpenText BPM, Java, Salesforce CRM, OAuth2*

**Ohio State University**, Columbus (Ohio)  
*Graduate Teaching Assistant*

*January 2019 – May 2019*

- Taught 'Introduction to C++ programming' for a class of 40 undergraduate students. Responsible for conducting lectures and labs through the semester.

## ACADEMIC PROJECTS

### Image Captioning

*February 2019 – April 2019*

- Developed a model using RCNN and LSTM algorithms to caption an image. RCNN is used to identify the objects in a particular image and LSTM is used to generate the caption based on the objects detected.
- Technologies Used: *Python*

### LISP Interpreter

*September 2018 – November 2018*

- Built a LISP interpreter to read LISP expressions in the formal notation and evaluate it. The interpreter would convert the LISP expression into a binary tree representation and evaluate the expression recursively.
- Technologies Used: *C++*

## AWARDS

- **Employee of the month (May 2015):** For improving the performance of the existing order synchronization process for large orders to 30 secs from 4 min.
- **Yellow Belt (Six Sigma Certification):** Demonstrated improvement in existing business process by fine tuning the SAP connector allowing faster shipment synchronization.