

# Archit Srivastava

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## EDUCATION

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### University of Illinois at Urbana-Champaign

Expected Graduation: May 2023

*Bachelor of Science in Systems Engineering and Design and Minor in Computer Science*

- **Coursework:** Business Side of Engineering, Analysis of Data, Data Structures, Linear Algebra with Computational Applications, Differential Equations, Intro to Modeling, Introductory Dynamics, Introductory Solid Mechanics

## EXPERIENCE

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### RailTEC @ Illinois - Software Engineer/Research Assistant

September 2021 to Present

- Developing a webapp using Django to display real-time data of different trains for the Chicago Transit Authority and Metra
- Analyzing historic train data to predict stock wheel maintenance needs using AI/ML (Tensorflow)

### Illinois Business Consulting - Consultant

September 2021 to Present

- Collaborating with a team of 7 to develop an automated dashboard for a Farm credit cooperative to analyze US and competitor exports
- Adapting client's export study with external data sources and aggregating data for different commodities to develop a holistic dashboard
- Conducted interviews with stakeholders and end-users to design the interface according to their needs

### ANMsoft Technologies - Data Analyst Intern

June 2021 to August 2021

- Analyzed hotel data to predict occupancy patterns with respect to time, price, holidays, etc., on over **1 million** daily data entries and created a dashboard using Plotly with visualization of the trend reports (JavaScript, HTML, CSS, Python)
- Increased data extraction by **5%** by replacing the legacy algorithm of data extraction with Google Analytics (JavaScript, Python)
- Saved **166.7 hours** calculation hours daily by pre-processing user data to streamline result calculations by up to **10 minutes** per server
- Increased first page matching rate by **20%** by redesigning the user interface using pre-processed data to form the basis of the search results

### HopeQure - Product Development Intern

May 2020 to August 2020

- Developed a go-to-market strategy to enter the US and Singaporean markets
- Increased matching rate between end-user sessions and suggestions by **15%** compared to the old model by contextualizing key phrases in a relational database
- Expanded the language model **20 million speakers** by adding support for a local language and thereby increasing the potential audience
- Leveraged speech recognition, sentiment analysis and topic modeling to develop a tailored counseling decision support system to interpret users' emotional and mental state (Python, PyTorch, SpeechRecognition)

## PROJECTS

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### Robotics

Aug 2015 to May 2019

- Developed code in C to control an underwater robot. Used principles from fluid mechanics to counteract the robot's momentum
- Designed the frame of the robot using stress analysis, and weight optimization techniques (AutoCAD, Fusion360)

## ADDITIONAL INFORMATION

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**Skills:** Python, Java, C++, C, R, Go, SQL, PostgreSQL, AWS, JavaScript, React, Node.js, HTML, CSS, PyTorch, TensorFlow, scikit-learn, GeoPandas, NumPy, Pandas, Plotly, SciPy, Excel

**Languages:** English, Hindi, French (Conversational)

**International Experience:** Lived and studied in India, USA, Hong Kong and Singapore

**Certifications:** PADI Rescue Scuba Diver, PADI Enriched Air Diver, PADI Night Diver

**Interests:** Scuba Diving, Skiing, Cricket, Running, Basketball, Music