

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

## EXPERIENCE

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### 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)
- Replaced the legacy algorithm of data extraction with Google Analytics which was **5%** faster (JavaScript, Python)
- Reduced server load by pre-processing user data to streamline result calculations by up to **10 minutes** per server with a total of **166.7 hours** saved daily
- Improved user interface by increasing the first page matching rate by **20%** for the search results

### HopeQure - Product Development Intern

May 2020 to August 2020

- 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)
- 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 by adding support for a local language and thereby increasing the potential audience by **20 million speakers**

### The Oceanway Corporation - Research Assistant

June 2017 to August 2017

- Conducted research with a Marine Biologist to monitor coral bleaching and water temperature gradients in Hong Kong (Python, GeoPandas, Pandas, NumPy, SciPy)
- Created a localized climate model to predict future temperatures using linear regression (Python, GeoPandas, TensorFlow)

## 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)

## SKILLS

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**Programming:** Python, Java, C++, C, R, SQL

**Web Design:** JavaScript, React, HTML, CSS

**Machine Learning:** PyTorch, TensorFlow, scikit-learn

**Data Analysis:** GeoPandas, NumPy, Pandas, Plotly, SciPy

## ADDITIONAL INFORMATION

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

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

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

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