

# Rahul Maligi

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## Education

<b>University of Texas at Austin – Bachelor's in Computer Science (B.S)</b>	<b>GPA: 3.81</b>	<b>May 2024</b>
<ul style="list-style-type: none"><li>• Data Structures &amp; Algorithms</li><li>• Discrete Mathematics</li><li>• Computer Organization &amp; Architecture</li><li>• Autonomous Intelligent Robotics</li></ul>		

## Skills & Qualifications

- Windows, macOS, ChromeOS, and Linux Operating Systems
- Microsoft Office and Google Docs Suite
- **Java (5 years), C++ (4 years), Python (3 years)**
- **SQL (2 years), JavaScript (2 years), HTML (2 years)**
- Visual Studio, Eclipse, MS SQL Server, MySQL, Git/GitHub
- Flutter, ReactJS, NodeJS, Firebase, Flask, Tensorflow, Keras, PyTorch, scikit-learn

## Work Experience

<b>Acmetek Global Solutions</b>	<b>June 2020 — August 2021</b>
<i>Artificial Intelligence (AI) Intern</i> <ul style="list-style-type: none"><li>◦ Worked under <b>CEO, Mr. Ramesh Nuti</b>, to improve sales and support company's financial vision</li><li>◦ Developed <b>chat-bots</b>, and <b>predictive analysis algorithms</b> to estimate sales and costs</li></ul>	
<b>University of Texas at Dallas</b>	<b>September 2019 — September 2021</b>
<i>Artificial Intelligence (AI) Research Assistant</i> <ul style="list-style-type: none"><li>◦ <b>Researched</b> under a professor of the University of Texas at Dallas, <b>Dr. Nicholas Ruozzi</b></li><li>◦ Designed <b>original machine learning algorithms</b> as well as advanced <b>game bots</b></li></ul>	
<b>Independent Study and Mentorship Program</b>	<b>April 2020 — September 2021</b>
<i>Lead Professional Website Developer</i> <ul style="list-style-type: none"><li>◦ pirtleism.wixsite.com/2021hhsfpn, pirtleism.wixsite.com/2020hhsfpn, pirtleism.wixsite.com/2020mhsfpn</li><li>◦ Published main event website using WIX API, and created templates for future websites for this program</li></ul>	
<b>TECHROVA Enrichment Club</b>	<b>June 2020 — September 2021</b>
<i>Lead Professional Website Developer</i> <ul style="list-style-type: none"><li>◦ techrova.org</li><li>◦ Engineered <b>front end and back end</b> of website using WIX, JavaScript, HTML, and Transaction APIs</li></ul>	

## Certifications & Awards

- Business Professionals of America C++ Programming **State Champion** and **National Qualifier**
- Precision Exam **Certifications**
  - Computer Technology I, Computer Technology II, Customer Service, Word Processing

## Projects

- **Chat-Bot & Sales Analyzer**
  - Assembled a chatbot as an AI intern for Acmetek using Python, HTML, JavaScript, and SQL.
  - Built from scratch and used to help customers with company products.
  - Implemented predictive analysis algorithm with AI using data gathered from previous sales and chatbot to analyze trends and propose a marketing action that will yield the highest income.
- **Stormbound & AI Research**
  - Recreated popular game, Stormbound, with Dr. Ruozzi using Python.
  - Researched reinforcement learning to develop original deep learning algorithms and neural networks
  - Programmed original AI bots using Python, using TensorFlow Keras, ROCm, and other tools.
- **Website Development For Chatbot**
  - Created UI/UX for chatbot using CSS, HTML, and JavaScript to integrate into website
  - Connected the AI with UI using primarily Flask and supporting libraries
  - Deployed Chatbots and SQL databases to Azure for publishing on website
- **Game Development**
  - Developed First Person Shooter game using Unreal Engine 4
  - Coded a maze game using Java and trained bots using AI algorithms to play game
  - Constructed bots using AI to play general board games such as chess, tic-tac-toe, etc