HEMA THOTA

hthota@ucsd.edu | (858)-281-3893 | LinkedIn | GHC 2021 Student Scholar | Tapia 2021 GradWIC Scholar

EDUCATION

Masters of Science in Computer Science, University of California San Diego, La Jolla, US   **Sep 2020 - Mar 2022**
GPA: 4.0/4.0 | Relevant courses: Algorithms, Compiler Design, Probabilistic Reasoning and Decision Making

Bachelor of Eng. in Computer Science, M S Ramaiah Institute of Technology, Bangalore, India   **Aug 2012 - Jun 2016**
GPA: 9.77/10.00 | Awarded **Gold Medalist** and **Best Achiever**, CSE Department
Relevant courses: Data Structures, Algorithms, Cloud Computing, Big Data & Data Science

SKILLS

Programming Languages: Python, C#, JavaScript, Java, VBA   **Querying Languages:** SQL, DAX
Web Technologies: ASP.NET MVC framework, C#, JavaScript, JQuery, HTML5, Bootstrap, CSS, LINQ
Cloud Technologies: Google Cloud (Airflow, Big Query, Cloud Storage), Azure (Data Factory, Data Lake, Data Bricks)
Business Intelligence: Reporting (Tableau, Power BI), ETL (SSIS, UC4), OLAP (Tabular and multidimensional SSAS)

WORK EXPERIENCE

Software Engineering Intern, Autonomous Driving Team, Qualcomm, San Diego, US   **Jun 2021 - Sep 2021**
• Implemented frame selection algorithm to drive continuous learning process for camera perception engine
• Built a data pipeline to load data, trigger frame selection process and write results back (using Apache Airflow)

Senior Analyst, Financial Risk Management, Swiss Re, Bangalore, India   **May 2019 - Sep 2020**
• Built accurate and interactive dashboards in Power BI and Tableau to track key indicators for business teams
• Nominated for **Hasthi Award** for reducing 5 hrs/week of manual effort of users by developing automated dashboards
• Enhanced data storage and refresh process for Tableau reports, decreasing load time of reports by 50%

Data Engineer, Thorogood Associates, Bangalore, India   **Jul 2016 - Apr 2019**
Endowment Management Project for a firm handling endowments of a prestigious UK University
• Built a web application (in ASP.NET using MVC 3.5 framework) for users to track funds, cash flows, valuations
• Designed and developed a workflow to digitalize the manual document approval process via a web application
• Decreased the processing time of SSAS cube by 60% through tuning SQL objects and creating SSAS partitions
Supply Chain Management Project for a leading Consumer Packed Goods Manufacturer
• Designed and built an end-to-end system in Azure cloud to extract and analyze past sales data
• Received **Star Award** for skilling up in Azure technologies and delivering a successful product within a tight deadline
• Working as a **technical lead**, mentored 3 juniors and scaled and automated the product to serve more markets
• Improved the performance of a critical SQL stored procedure by 300% (48 to 12 hours) by redesigning the logic

PROJECTS

Python to WebAssembly Compiler (a subset), Advanced Compiler Design Course, UCSD, US   **Feb 2021**
• Implemented a Python to WebAssembly compiler for functions, classes, conditionals and iterators
• Coded in JavaScript and implemented features like parsing (using lezer), type-checking and code generation

KeepMeWell, IBM Women in Technology Hackathon, Bangalore, India   **Jun 2020**
• My team represented Swiss Re in the India-wide hackathon and were selected as **finalists** - **top 15 teams** out of 400
• Proposed a product to make information on COVID test centers, hospitals and infrastructure easily available
• Implemented a prototype using the IBM Cloud chat application - Watson | Video Link | Github

Accessible Bus Stops for the Visually Impaired, Random Hacks of Kindness Hackathon, Bangalore, India   **Aug 2016**
• Built prototype to help visually impaired individuals reach bus stops by making use of Bluetooth beacon
• My team was awarded **best hack** and we presented the project at Kathmandu Mini Maker Faire | Project Abstract

TEACHING AND VOLUNTEERING EXPERIENCE

• Mentoring students from diverse backgrounds, UCSD (received **Excellence Award** for the same) **Mar 2021 - Present**
• Graduate Women-in-Computing Board Member and K-12 outreach co-chair, UCSD   **Jun 2021 - Present**
• Teaching Assistant at UCSD (Client and Server side web development, Analytical writing)   **Sep 2020 - Present**
• Community Outreach (CSR) Event Organizer at Swiss Re, Thorogood Associates   **2016 - 2020**
• Teacher at NGO 'U&I' and Organizer at National Service Scheme (NSS)   **2012 - 2014**