SHREYAS **KHANDEKAR**

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EDUCATION, AWARDS, AND DISTINCTIONS

UNIVERSITY OF ARIZONA BACHELOR OF SCIENCE IN COMPUTER SCIENCE, HONORS, COLLEGE OF SCIENCE, UNIVERSITY OF ARIZONA, TUCSON — **MAY 2023**

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN MANAGEMENT INFORMATION SYSTEMS, HONORS, ELLER COLLEGE OF MANAGEMENT, UNIVERSITY OF ARIZONA, TUCSON — **MAY 2023**

GPA: 4.0

- Recipient of merit scholarship of $35000 per annum for Outstanding academics and co-scholastic achievements
- Academic Year Highest Academic Distinction and Dean's List with Distinction from the Dean of Students for an impeccable academic record

TECHNICAL SKILLS/PROGRAMMING LANGUAGES/SKILLS

- **Proficient Languages**: C++, Java, Python
- **Competent Languages**: C, Haskell, HTML, Kotlin
- **New Languages**: Prolog, MIPS, Ruby
- **Other Skills**: MS Excel Proficiency, Blockchain Technology Certification, MS Office Competency, Git workflow, Big(O) analysis, Linux, Bash, Discrete Data Structures
- **Soft Skills**: Oration, Communication, Leadership, and Organization

PROJECTS/WORK EXPERIENCE

UNDERGRADUATE RESEARCH ASSISTANT, COLLEGE OF SCIENCE, UNIVERSITY OF ARIZONA — **FEBRUARY 2020 – JANUARY 2021**

Working as a UGRA under Dr. Michelle Strout on numerous tasks under the CHiLL-I/E and EPWD projects

Roles, Responsibilities, and Achievements:

- Ported Haskell code into C++ to increase efficiency
- Responsible for generating test cases for C data structures. Wrote over 6000 lines of tests
- Collaborate with 10 people from different technological, educational, and cultural backgrounds
- Experience with Java CUP to implement compiler tasks to get a performance benchmark against other expert parsing tools

REPLACING BISON PARSER WITH A C PARSER TO HAVE MORE EFFICIENT PARSING OF SETS AND RELATION EXPRESSIONS IN IEGENLIB

ELLER BUSINESS CAREERS INSTITUTE, ELLER COLLEGE OF MANAGEMENT, UNIVERSITY OF ARIZONA — **JUNE 2020 – JULY 2020**

Participant in a multitude of activities to gain industry outlook via virtual company visits and more than 10 major specific learning activities

Achievements:

- Networked virtually with Eller alumni from Google, General Motors, Wndr Co, and Protiviti to gain valuable insight into the companies
- Completed a Blockchain certification via Virtual Training Company to prepare for a career in the data software industry
- Worked through the online course material and devoted 20 hours a week over the summer in learning about new technologies and challenges

SOFTWARE PROJECT LEAD, MODERN SCHOOL, BARAKHAMBA, ROAD, NEW DELHI — **MAY 2018 – MAY 2019**

Developed a Supermarket Inventory in C++. Delegated tasks and worked with 2 people to collaborate in real-time to write and debug code

Technical details:

- Used OOP to enable data security, data abstraction, and data encapsulation by creating a class "Items"
- Designed member function for creating novel items, displaying Items, searching for an item in inventory by name, by barcode number, by stock
- Initiated Admin Level Features to modify inventory and start clearance sales on items in surplus or surcharge on items in shortage
- Implemented Client level features to add items to cart, delete cart, and search for items in the cart by name or barcode, and proceed to check out
- Introduces Cashier level features to create a sale, modify the bill, and save bill to file that can be printed and given to the customer
- All data is stored in binary files for efficient storage and swift processing for large inventories

PURPOSE OF THIS PROJECT

Surveyed software used at supermarkets and realized that software with functionalities of all three users— Admin, Cashier, and Client—does not exist
Unified the three aspects so supermarkets do not have to procure three different software and enable seamless interface between departments

SCOPE FOR IMPROVEMENT

- Return to vendor function for damaged goods and profit margins by calculating purchase and resale costs
- Improving the UI of the software to make it more user-friendly using graphics

IMPLEMENTING THESE FUNCTIONS WILL MAKE SOFTWARE READY FOR SALE TO ANY SUPERMARKET OR RETAIL STORE

UNITED NATIONS FOR ENERGY AND ENVIRONMENT, UNITED NATIONS, COPENHAGEN — **OCTOBER 2018 – NOVEMBER 2018**

Participant in October 2018 at Denmark and Sweden | Technologies Employed: Wind energy, Water management, Plastic Management

Roles, Responsibilities, and Achievements:

- Selected to represent the school and country from 800 students
- Led a team of 10 students from the school to communicate and discuss the current energy scenario of India
- Interacted with officials of the Danish Water Forum and Danish Waste Management Centers to inquire about the current scenarios of Danish Energy and Waste Management

DELIVERED, ON BEHALF OF THE SCHOOL AND COUNTRY, A SPEECH AND A PRESENTATION TO THE UNITED NATIONS FORUM

RELATED COURSEWORK

COMPLETED:

- **Computer Programming**
- **Computers and Internetworked Society**
- **Calculus 2** (beyond in High School in India)
- **Software Development**

IN PROGRESS:

- **Computer Organization**
- **Comparative Programming Languages**
- **Analysis of Discrete Structures**
- **Business Communication**