Alishan K. Kaisani

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OBJECTIVE

To obtain a summer 2018 internship that will allow me to apply skills in chemical engineering and computer science

EDUCATION

Georgia Institute of Technology, Atlanta GA

Major: Chemical and Biomolecular Engineering (Bachelors)

Minor: Computer Science (Information and Internetworks thread)

RESEARCH EXPERIENCE

Georgia Tech Hess Group Laboratory, Atlanta GA

Undergraduate Research Assistant

- Investigate thin film coating processes related to surface modification of materials for electronics applications
- Lead a study on the influence of color-dyes on solid-liquid contact angle in surface modification experiments
- Design experimental methods and collect contact angle data of dyed liquids on superhydrophobic surfaces

Georgia Tech Vertically Integrated Projects - BeeSnap, Atlanta GA

Jan 2017 - Present

Aug 2017 - Present

GPA: 3.65

Expected Graduation: May 2019

Team Researcher

- Interact with team members of various majors in weekly meetings and breakout sessions to combine expertise
- Contributed to Agile Development of educational web-app on collecting big-data about bee-flower interactions
- Designed user-interface (HTML/CSS) and integrated camera functionality (JavaScript Angular/Node.js)
- Created and connected a database (mariadb/SQL) on Georgia Tech servers to the web application
- Lead team in new direction by mentoring new members and distributing duties among team

PROFESSIONAL EXPERIENCE

Comprehensive Business Accounting, Norcross GA

May 2016 - Aug 2016

Administrative Assistant

- Expedited business operation by designing a schedule of meetings and appointments for employees
- Compiled data (MS Excel) for relevant business documents to streamline day to day business practices

Piedmont Hospital - Biomedical Engineering Department, Atlanta GA

Aug 2014 – Dec 2014

Student Intern

- Facilitated operation of biomedical equipment and assisted technicians in troubleshooting faulty equipment
- Expedited completion of monthly quota of equipment fixes i.e. 100 infusion pumps/month
- Provided customer service to visitors, patients, and other medical professionals within the hospital

LEADERSHIP EXPERIENCE

North East Ismaili Center - Council Corner, Duluth GA

Aug 2013 - Aug 2015

Shift Manager

- Hub for al registration and information needs of congregation members of a local religious institution
- Delegated duties to volunteer team and provided customer service to 70+ people in a few hours on a weekly basis
- Operated a database registry system (MS SharePoint 2007) and administered collection of funds for various programs

North East Ismaili Center – Early Childhood Development Center, Duluth GA

Jan 2013 - Aug 2015

Special Projects Coordinator

- Program where children aged 3-6 at local religious institution receive a Montessori-based education
- Organized special events such as Graduation & Field Day by planning events and program schedule
- Oversaw successful execution of events on program days by working with volunteer team of 10-15 people

PROJECTS

Analysis of Aquarium Pump, Transport Processes I

- Designed experiment to measure effects of temperature, split flow, and contraction on total pump head
- Analyzed data to determine the pump curve at room temperature and calculate frictional losses through flow
- Wrote a technical report documenting summary of data and conclusions about pump efficiency

Automotive Catalytic Converter, Numerical Methods

Modeled Plug Flow Reactor process in ASPEN to optimize output stream quality by accounting for non-idealities

• Optimized rate constant values through iterative calculations in MATLAB using method of Steepest Descent

ACTIVITIES

Georgia Tech Pioneer, Duluth GA

Aug 2017 - Present

Web Designer

- Selected through interview process to work with team to increase visual aesthetic and usability of Pioneer website
- Communicate with BME faculty to understand their goals for the newsletter and work to optimize viewership
- Perform maintenance updates and publish new articles to keep website in-sync with the print-publishing-cycle

Georgia Tech Housing Intramurals (Flag Football)

2015 - Present

American Institute of Chemical Engineers, Member

2015 - Present

Georgia Tech Barbell Club, Member

2016 - 2017

SKILLS/INTERESTS

Chemical: Mass/Energy balances, Phase Diagrams, Separation processes, Heat exchangers, Dimensional Analysis,

Momentum/Heat/Mass Transfer, Polymerization Kinetics, Material Properties of Polymers

Laboratory: Thin layer chromatography, Melting point range, Column chromatography, Distillation, Recrystallization, Gas

Chromatography, UV/VIS, IR, NMR, Mass Spectroscopy

Software Skills: ASPEN, ChemDraw Linux, Git/GitHub, M.S Office (Excel – Excel Solver, Regression Analysis)

Programming: Java, MATLAB, Python, C, SQL, HTML/CSS, JavaScript – Angular, Node.js (Familiar)

Languages: Spanish (Proficient), Hindi, Urdu (Conversational)

Communication: Technical Report Writing, Customer Service, Mentorship

Interests: Discrete Mathematics, Powerlifting, Music (9 years – Percussion)

AWARDS/HONORS

Zell Miller Scholarship Recipient, Georgia Tech

2015-Present

Dean's List, Georgia Tech

2016-2017

Faculty Honors, Georgia Tech Chemical Engineering Department

2015 2014

Top 10 - Clemson Calculus Challenge

Georgia Governor's Honors Program Alumni, Valdosta GA

2014