

Deh Jun Tzou

Email: dtzou3@emory.edu
Phone: 404-973-8682

416 Rocksprings CT NE
Atlanta, GA 30306

Profile: A prospective graduate of Emory University with practical programming experience and strong analytical skills developed from a rigorous background in mathematics and computer science. Possesses good knowledge of data preprocessing as well as statistical and machine learning methods in analyzing data sets. Operates proficiently in a fast-paced environment and is always prepared to learn new technology and undertake complex tasks.

Interest: Seeking an opportunity to join a company as a data analyst, software developer, or IT consultant.

EDUCATION

Emory University

B.S. in Applied Mathematics, B.A in Computer Science
Cumulative GPA: 3.656/4.000 Major GPA: 3.65/4.00

Atlanta, GA
August 2011 – December 2015

WORK EXPERIENCE

IBM Korea 14th Blue-I 2013 Summer Internship Program

Software Group Intern

Seoul, South Korea
July 2013 – August 2013

- Gained experience in the IT industry, specifically the field of social business and collaboration solutions. Worked in the IBM Software Group division with an IBM Collaborative Solutions team
- Researched and compiled case studies on businesses that successfully implemented IBM Connections, an enterprise social software that fosters collaboration among employees through dynamic networking. Identified trends of increased project efficiency in businesses that implement IBM Connections as a result of smooth cross-departmental communication between employees
- Researched and prepared a report extensively comparing the user interface of IBM Connections with Microsoft SharePoint, IBM's primary competitor for enterprise social software.
- Presented to the executive solutions team on potential business opportunities for the expansion and implementation of IBM Connections in the university environment.
Presentation Title: *Measures to Improve Collaboration within Team Projects through IBM Connections*
- Collaborated with other Software Group interns in devising innovative marketing strategies to promote the IBM Software Korea Facebook page.
- IBM ambassador for a public recruiting event for college students interested in careers at IBM

PROJECTS

Derived and evaluated a clinical prediction model for Clostridium Difficile Infection

April 2015 - Present

- Used the Super Learner algorithm implemented in R's Super Learner package, an ensemble machine learning technique, to predict the risk of CDI 72 hours after admission to ICU and start of antibiotics in adult patients
- Data was queried from the public MIMIC-II database based on selected predictors which was then pre-processed to construct the training data for building and evaluating the prediction model
- Preliminary results showed that the Super Learner is a satisfactory model in identifying patients at high risk of CDI. Project is still in progress as we aim to develop a more robust and comprehensive model

EXTRACURRICULAR ACTIVITIES

With Christ Church

Accountant/ Executive Member of Youth Ministry

Duluth, GA
August 2013 - Present

- Computed and reported the total sum of the church offering every Sunday
- Managed and advised church budgets and spending
- Examined past monthly budget and spending patterns to optimally allocate funds

SKILLS & INTERESTS

Programming/Technical: Java (proficient), Python (competent), SQL (competent), C (working knowledge), HTML/CSS (prior experience), MATLAB (prior experience)

Languages: English (fluent), Korean (fluent), Chinese (conversational)

Interests: Carom Billiards, Music, Chinese language