ANNIE K. TANG

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EDUCATION

Duke University   *Durham, NC*
B.S. Computer Science | B.S. Statistics | GPA: 3.7/4.0   2014 - 2018
Relevant Coursework: Design & Analysis of Algorithms, Software Design & Implementation, Operating Systems, Introduction to Databases, Bayesian & Modern Statistics, Statistical Case Studies, Machine Learning & Data Mining, Statistical Inference, Regression Analysis, Probability, Algorithms & Data Structures, Computer Architecture, Discrete Mathematics, Linear Algebra, Multivariable Calculus

SKILLS

Proficiencies: Java, Python, C, R
Significant Experience With: SQL, HiveQL, Hadoop, TensorFlow, CSS, HTML, Microsoft Power BI, Swift, JavaScript, MIPS Assembly, Cypher (Neo4j query language), Git

PROFESSIONAL EXPERIENCE

AT&T – *Labs Research Intern (Data Science)*   Jun 2017 – Aug 2017
▪ Applied neural networks and other machine learning methods to software defined networking and virtual network function automation.

AT&T – *Big Data Intern*   Jun 2016 – Aug 2016
▪ Applied graph database Neo4j (first in AT&T Big Data to utilize this technology) and other statistical tools to data-driven analyses of employee productivity, automation opportunities, and resource management.
▪ Aided in key decision-making processes that resulted in XX% increase in employee productivity.

AT&T – *College Recruiting Ambassador*
▪ Assist AT&T recruiters as a representative at Duke University, inform students of and speak on new opportunities.

Google – *CodeU*   Mar 2016 – Aug 2016
▪ Exclusive development program to strengthen technical skills, through an online technical development curriculum and final programming project. Program culminates in an all-expense paid summit at Google in August 2016.
▪ Matched with a Google mentor to participate in mock interviews and meet regularly with throughout the program

Undergraduate Researcher at Duke, Bass Connections *University-wide, interdisciplinary research initiative*   Aug 2017 –
▪ Selected to work alongside Duke Biomedical Engineering faculty on the Blue Devil Resistome Project, which aims to better understand the potential risks associated with healthcare centers, environmental microbes, and infectious diseases through mapping the distribution of antibiotic-resistance genes across the Duke campus.
▪ Assist with data analysis and development of computational tools for analyzing and disseminating data

Undergraduate Researcher at Duke, Department of Computer Science   Jan 2017 –
▪ Working alongside PhD student and faculty in Duke's Department of Computer Science on creation of an interactive tool to improve online big data query performance analysis through the use of large-scale, multi-level, directed acyclic dependency graphs.

Teaching Assistant at Duke – *CS 250: Computer Architecture*   Jan 2016 – Jan 2017
▪ Responsibilities include holding weekly office hours (both in-person and online), teaching lab sections, and grading.

Data+, Information Initiative at Duke – *Data Science Researcher & Developer*   May 2015 – Aug 2015
▪ One of three students selected by mathematics department for a paid summer data science initiative
▪ Applied machine learning algorithms such as linear discriminant analysis, random forests, and k-means to predict individual risk behavior preference, culminating in a predictive model 40% more accurate than previously available models

PERSONAL PROJECTS

AnnieKatelynTang.com
▪ Created personal website using CSS, JavaScript, and HTML; integrated Jekyll and Github's hosting platform
Cameron Crazies Tenting App
▪ Created an iOS application for Duke students to use during tenting season to coordinate schedules, keep up with tent checks and K-Ville events, etc. *Tenting: Duke students form organized groups and sleep in tents from January – February in order to secure spots in the yearly Duke-UNC home game at Cameron Indoor Stadium. There's a reason why we call ourselves the Cameron Crazies.*

ACTIVITIES & LEADERSHIP EXPERIENCE

Webmaster – Duke Statistical Science Majors Union   Sept 2016 –
InterVarsity Christian Fellowship Leadership   May 2015 –
▪ Small group leader (2015 – 2016, 2017 – 2018): co-lead weekly bible study for undergraduates.
▪ Vision Team member (2016 – 2017): vision-cast for the chapter, plan structures (retreats, on campus events, etc.)
▪ Large group leader (2016 – 2017): organize and lead weekly chapter-wide fellowship.