

EDUCATION

The University of Texas at Austin

Master of Science in Engineering and Scientific Computing; *GPA: 3.6/4.0*

May 2018

Coursework: Software Engineering, Object-Oriented Prog., Advanced Scientific Computation, Parallel Programming

Bachelor of Science in Mechanical Engineering, Honors; *GPA: 3.83/4.0*

December 2012

TECHNICAL SKILLS

Proficient in: C++, Python, MATLAB

Tools: Docker, Travis CI, git, coverage, Xcode, Google Cloud Platform

Comfortable with: Objective C

Exposure to: Java, Swift, SQL, JavaScript, HTML, CSS

PROFESSIONAL EXPERIENCE

Senior Product Validation Engineer, *Cummins Inc.*

Dec 2014–July 2016

- Developed a new experimental method to identify the Cummins DEF Supply Unit's cavitation onset at various environmental conditions
- Created robust test plans with risk identification tools such as FMEA, Fault Tree Analysis, and 7 Step Problem Solving

Design Integrator, *Cummins Inc.*

Feb 2013–Dec 2014

- Coordinated with cross functional teams in the U.K. to ensure 100% on time assembly of prototype engines
- Collaborated with engineers in the US and India to align engine design and testing work with program milestones

ACADEMIC EXPERIENCE

C++/Python Instructor, *Coders Across Disciplines*

May 2017–Present

- Leading weekly coding workshops for 20+ UT students
- Teaching core computer science concepts - such as data structures, recursion, graph search and sorting algorithms

Teaching/Laboratory Assistant, *The University of Texas at Austin*

August 2016–Present

- Leading 3 engineering laboratory sessions of 9+ students, providing direction in the execution of experiments

PERSONAL PROJECTS

MATLAB Interpreter

Aug 2016–Present

- Implementing a MATLAB interpreter in Python using software engineering tools such as git and continuous integration
- Main features include fundamental matrix operations, matrix factorization, linear equation solving, computation of eigenvalues and eigenvectors

KEY

June 2016–Present

- Developed an iOS app in Objective C that allows users to effortlessly share their 'online presence' with friends, colleagues and/or followers
- The application generates QR Codes composed of user-selected online profiles, and provides code scanning capability

Meal Sharing Platform

April 2016–Jan 2017

- Built an 'MVP' iOS application in Objective-C that allows home cooks to sell meals to nearby consumers

CERTIFICATES

Massachusetts Institute of Technology

Oct 2017–Present

Data Science and Big Data Analytics: Making Data-Driven Decisions

- Learning the theory and practice behind recommendation engines, regressions, network and graphical modeling, anomaly detection, hypothesis testing, machine learning, and big data analytics