Karun Kannan

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EXPERIENCE

ACCUO | Co-Founder, Team Lead
In collaboration with CBID, JHMI, and the MUSiiC Lab
November 2015 – Present | Baltimore, MD

- Invented novel needle-integrated ultrasound imaging probe; PCT filed
- Managed team of 10 engineers to execute vision for product
- Raised and managed a budget of $165,000 in grant funding from TEDCO MII, Coulter Fund, and VentureWell
- Designed algorithm for real time collection of A-lines to produce high resolution image of deep artifacts
- Developed unique manufacturing process for single element transducers
- Research has been published in SPIE journal

SONAVEX | Software Engineering Intern
Point of Care Ultrasound Imaging Technology
January 2018 – Present | Baltimore, MD

- Develop tools to automate testing, analyze results, and visualize data
- Develop and test auto-build scripts, specifically for Windows builds
- Design dashboard to track builds and associated details
- Languages: Python, C++

ORACLE | Machine Learning Intern
Oracle Health Sciences General Business Unit
June 2017 – Aug 2017 | Bedford, MA

- Designed machine learning algorithm to detect and link duplicates in severe adverse event (SAE) databases
- Mined and cleaned FDA SAE Data with PL/SQL to allow for feature selection and engineering
- Trained and validated Logistic Regression Model
- Developed prototype web application with Django framework
- Algorithm used as basis for future features in Oracle Safety Suite
- Languages/Frameworks: Python, SQL, Django, Javascript, JQuery

EDUCATION

JOHNS HOPKINS UNIVERSITY
BS Biomedical Engineering, Computer Science
Expected May 2019 | Baltimore, MD
Conc. in Computational Biology
Dean's List (3.5 +)
Cum. GPA: 3.7 / 4.0

COURSEWORK

UNDERGRADUATE
Data Structures
Java Programming
Systems and Controls
Models and Simulations
Algorithms
Machine Learning

SKILLS

PROGRAMMING
Knowledgeable (> 1000 lines)
Java • Matlab • Python • C
C++
Familiar
Creo • Latex • Django
HTML/CSS • JavaScript • jQuery
PL/SQL • Arduino

OTHER
Image Analysis • Feature Detection

LANGUAGES
Native fluency:
English, Tamil

CONNECT

LinkedIn://**karunkannan**
Github://**karunkannan**

INTERESTS

New England Patriots • Game of Thrones • Running
Spikeball