

Karun Kannan

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EXPERIENCE

ACCUO | Co-FOUNDER, TEAM LEAD

In collaboration with CBID, JHMI, and the MUSiC 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

- Automate regression testing to evaluate outcome of imaging algorithm
- Develop simulators to evaluate various modules independently
- 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+) x4

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