

Lance Galletti



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gallettilance.org



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github.com/galletti94

Skills

Programming

OCaml	★★★★
Python	★★★★
Docker	★★★★
C/C++	★★★★
Java	★★★★
SQL/NoSQL	★★★★
JavaScript	★★★★
Go	★★★★
Haskell	★★★★
Clojure	★★★★
React	★★★★
Scala	★★★★

Other

Functional Programming,
Probability Theory, Pure
Mathematics, Compilers,
Distributed computing, Linear
Algebra, Lambda Calculus,
Blockchain

Awards

UROP Award 2013/2014
Employee of the year 2016

Citizenship

United States

References

Hongwei Xi, Associate Professor
hwxi@bu.edu

Education

Boston University / M.S Comp. Sci.

JAN 2017 - MAY 2018

Coursework: Distributed Systems, Data Mining, Advanced Databases, Prog. Langs, Advanced Algorithms, Computer Systems, Optimization Methods, Lambda Calculus

Boston University / B.A Statistics

SEPT 2012 - MAY 2016

Coursework: Statistical Machine Learning, Advanced Stochastic Processes, Functional Analysis, Time Series, Generalized Linear Models, Advanced Probability Theory

Professional Experience

Red Hat / Openshift Software Engineer Intern

May 2018 - PRESENT, BOSTON

- Developing the Openshift platform in Go and Javascript by enabling end to end monitoring and streamlining of tests for continued, automated integration of new application features.

BU Spark! / Edtech Software Engineer

SEPT 2017 - MAY 2018, BOSTON

- Developed, in Python Flask, using the typeform API, a team management Web Application for consultants. This is now a required tool for CS492.
- Automated, in JS, Django, and Go, the semesterly matching of hundreds of students to industry mentors. By provisioning postgresSQL databases, and creating a high-performance app that consolidates internal and external API data, we produce optimal pairings.
- Implemented Team Formation Algorithms in Python for the SheHacks hackathon at BU. An opt-in tool that sent personalized, introduction emails to team members prior to the event

Global App Initiative / Lead Android Developer

SEPT 2017 - MAY 2018, BOSTON

- Leading a team of 20 students to create an Android Application, utilizing the GitHub Open Source workflow, for the International Labour Organization .
- Developed in Java, the app utilizes Firebase to store and retrieve data. The app provides business and entrepreneurship training and aims to empower users in the process.

Projects

Open Source Contributor / Applied Type System

JUNE 2017 - PRESENT, GITHUB

- Developing and maintaining tools that combine the powerful type system of ATS with the Machine Learning libraries of R and allow for co-programming of ATS and R to increase productivity and reduce the need for expensive runtime tests.

Blockchain CLI / ATS + C

APRIL 2018 - MAY 2018, GITHUB

- Implemented a Blockchain Command Line Interface with the following features: 1) Currency and transaction validation, 2) Smart contract language based on untyped lambda calculus, 3) Query language for database creation and decentralized backup.

Twitter Exploratory Data Analysis / IPython

NOV 2017 - DEC 2017, GITHUB

- Collected, using the Twitter API, over 20 thousand tweets in a MongoDB database.
- Used Support Vector Machines, Singular Value Decomposition, Neural Networks, as well as visualization tools in Python to uncover and analyze interesting properties of Tweets