

hunter lee

✉ hl130@duke.edu 🌐 hunterlee.xyz in /in/hunter-lee-87a52311 🔄 narendly

+ summary

Returning Duke junior interested in problem-solving using CS/electrical engineering methods. Passionate about software engineering, product management, and computer architecture.

+ employment

Lineage Logistics Analytics

Data Scientist/Software Engineering Intern

San Francisco, CA

2016 to Current

Optimization of variables involved such as size of the buffer, number of doors, etc. in an automated storage system (40% more storage, \$18MM project) while maintaining throughput.

Co-led the development of an object-oriented, multi-threaded discrete-event simulation in Python. Tools: SimPy, IntervalTree, MySQL, AWS

Duke University Computer Science Department

Teaching Assistant

Durham, NC

2015 to Current

Led office hours for Operating Systems, Software Design and Implementation, and Computer Architecture.

Duke Systems Architecture Integration Laboratory

Undergraduate Researcher - BCL Research Group

Durham, NC

2016 to Current

Designing systems for responsiveness (such as smartphones) with asynchronous cores, power, and cache.

Scripting and running machine learning and graph applications in Apache Spark for experimental data.

Duke Neuroeconomics Huettel Laboratory

Undergraduate Researcher

Durham, NC

Jan 2011 to May 2011

Worked with Dr. Mullette-Gillman in assisting with data analysis using MATLAB and performing surveys.

+ awards

Duke University · Dean's List with Distinction

2015

Awarded to the top 10% of the school

Central Utah STEM Fair · 2nd Place in Central Utah STEM Fair

2010

+ activities

Duke East Asia Nexus · Editor

Current

Collected articles and edited them for publication to facilitate understanding of East Asian economic and political affairs.

Resident Assistant

Student leader over 30 undergraduates. Responsibilities include community building, conflict resolution, and residential programming.

+ volunteering

US Army (8th) · SGT, Military Police

2013 to 2015

Camp Carroll, Korea

Assisted the Provost Marshal in overseeing base-wide security. Managed a team of desk clerks. Received the Army Achievement Medal for leadership and contribution to the MP unit.

Church of Jesus Christ of Latter-day Saints · Missionary

2011 to 2013

Tokyo, Japan

Two year missionary service. Responsible for analyzing demographics and proselytizing activity and trained other missionaries.

+ education

Duke University

Electrical and Computer Engineering 2018

Major GPA: 3.97

Software Design and Implementation, Operating Systems, Artificial Intelligence, Algorithms, Digital Systems, Advanced Computer Architecture

Waterford School

2010

+ projects

VoogaSalad

Developed a game authoring environment modeled after Unreal Engine in Java using JavaFX. Libraries such as XStream and the Clarifi API were used to implement intelligent search of words. Created the physics engine and contributed largely in the back-end Model and Controller.

SLogo

Developed an IDE for the LOGO language written in Java using JavaFX. The IDE supports nested commands and includes a GUI Environment in which an object (turtle) moves around as commands are given. Created the front-end View with a user-interacting interface.

Raft

Implemented the Raft Consensus Algorithm in Java to simulate a consensus-based system using Java's RMI interface.

Librevenge - .zmf format header

Created header files in C++ for .zmf extension (Zoner Draw) as part of my Google summer of code submission for LibreOffice. Involved reverse engineering the ZMF format.

Decide

Current

Android app for quick polling with coworkers and friends. Built on Ionic platform using MongoDB. Integration with Elasticsearch.

Thread Library

Wrote a thread library in C++ that simulates context switching and synchronization with locks and monitors using ucontext (Unix).

+ skills

PROFICIENT

Java
Python
C++
HTML/CSS/Bootstrap
JavaScript
NodeJS/Express
C/MIPS Assembly
SQL

FAMILIAR

Scala
MongoDB
Verilog