Daniel Goldstein

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FDUCATION

NORTHEASTERN UNIVERSITY BS IN COMPUTER SCIENCE AND **MATHEMATICS**

Exp. May 2021 | Boston, MA University Honors Program Spring 2019 President's Award GPA: 4.0 / 4.0 Leadership: TA - Fundamentals of Computer Science I, Recruitment and Global Connections Committee Chair -Husky Ambassadors

ROBBINSVILLE HIGH SCHOOL

Grad. May 2016 | Robbinsville, NJ

LINKS

Website://daniel-goldstein.github.io LinkedIn://daniel-goldstein GitHub://daniel-goldstein

COURSEWORK

Machine Learning and Data Mining (IP) Programming Languages (MS) Algorithms (MS) Object Oriented Design Linear Algebra Partial Differential Equations Probability and Statistics

SKILLS

LANGUAGES

C • C++ • Java • JavaScript • Python • Racket • Scala • SQL

DATABASES

PostgreSQL• Oracle • MySQL

Physics (Mechanics and E&M)

SOFTWARE

Ansible • CUDA • Gradle • Hibernate • LLVM • Pandas • PyTorch • React • React Native • ROS • Spark • Spring

INTERESTS

Piano • Tennis • Muay Thai • Sailing

WORK FXPFRIFNCF

THE BROAD INSTITUTE OF MIT AND HARVARD - HAIL TEAM SOFTWARE ENGINEER CO-OP

Jan 2019 - Jun 2019 | Boston, MA

- Developed linear algebra infrastructure in Python/Scala/C++ for the hail compiler to enable scalable machine learning in genomic research and other big data applications
- Implemented efficient compilation strategies for streamed SQL joins in Scala/C++ to improve distributed query engine performance
- Interfaced with computational biologists for user support and planning of new features

POWER ADVOCATE, INC. | FULL-STACK SOFTWARE ENGINEER CO-OP Jan 2018 - Jun 2018 | Boston, MA

- Built a Java Spring internal web application used by customer success, sales and marketing teams to generate insightful reports on clients' platform usage
- Implemented scheduled jobs to consolidate client data from Salesforce and internal data stores
- Presented at biweekly sprint reviews to stakeholders on Scrum team's completed features and progress

SKYLINK TECHNOLOGY, INC. | SOFTWARE ENGINEER INTERN

Jun 2017 - Jul 2017 | Hamilton, NJ

- Optimized interface unit written in C for Raytheon KIV-7M, a low-level satellite communications controller
- Streamlined server multithreading to achieve 2x performance improvement
- Designed in-house test server to benchmark performance moving forward

RESEARCH

NASA RASC-AL MOON TO MARS ICE & PROSPECTING CHALLENGE | DIGITAL CORE ANALYSIS LEAD

Sep 2018 - Jun 2019 | Boston, MA

- Awarded Best Technical Paper for robot designed to prospect and extract subsurface water in a Martian or lunar environment
- Applied a Hidden Markov Model in Python to infer stratification and material properties of simulated lunar surface from jack-hammering telemetry data
- Assisted the controls lead developing ROS software in C++ for operation of drilling and water extraction systems

NORTHEASTERN UNIVERSITY COMPUTER ARCHITECTURE RESEARCH LAB | Undergraduate Research Assistant

Oct 2016 - Jun 2017 | Boston, MA

- Collaborated on parallelized GPU algorithm for medical imaging analysis in C using CUDA
- Analyzed impacts of dynamic parallelism and image complexity on performance of level-set segmentation algorithm
- Presented poster on dynamic parallelism analysis at Northeastern's 2017 RISE research expo