Joshua Geden

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Experience

Software Engineer Intern, MealMe — Jan. 2022 - April 2022
San Francisco, CA

- Changing the future of food with MealMe's new web platform at http://mealme.ai

Software Engineer Intern, Lawrence Berkeley National Laboratory — May 2021 - Aug. 2021
Berkeley, CA (Remote)

- Collaborated with engineers at the National Energy Resource Scientific Computing Center (NERSC)
- Focused on extending Jupyter to enhance the usability of NERSC's HPC systems
- Developed numerous extensions with React & Typescript frontends and Python backends
- Implemented CI/CD pipelines with GitHub actions and Selenium tests

Volunteer Software Engineer, Me.reka Makerspace — Jun. 2021 - Jul. 2021
Kuala Lumpur, Malaysia (Remote)

- Volunteered with a team 4 Duke students on Me.reka's education management platform
- Refactored existing Angular components to be modular
- Expanded server infrastructure & database capabilities with Firebase

Teaching Assistant, Duke University, Computer Science Department — Jan. 2020 - May 2021
Durham, NC

- CS230, Discrete Math for Computer Science, Jan 2021 - May 2021
  - Taught topics including proofs & logic, set theory, induction, probability, and graph theory
- CS201, Data Structures & Algorithms, Jan 2020 - Nov. 2020
  - Taught topics including arrays, linked-lists, maps, trees, queues, stacks, and time & space complexity analysis

Education

Duke University, B.S. Computer Science, B.A. Linguistics, German Minor — Aug. 2019 - May 2023
Durham, NC

- Current GPA: 3.98/4.0
- Activities: International Collegiate Programming Competition Club, student researcher with Yang Lab

S.C. Governor's School for Science and Mathematics, High School Diploma — Aug. 2017 - May 2019
Hartsville, SC

- President of Youth in Government Club, Captain of Mock Trial Team, Varsity Basketball

Projects

JupyterLab Slurm Extension

- Collaborated on a Jupyter GUI for managing supercomputing jobs with Slurm scheduler
- Added configurability to the Python backend through the Traitlets library
- Updated the UI with React to add search functionality and improve design

JupyterHub Custom Entrypoint Service

- Created a JupyterHub service and RESTful API with Python backend and jinja frontend
- Maintains custom Jupyter entrypoint settings for Berkeley Lab's thousands of computational researchers
- Presented project at CSSP poster session and Jupyter in HPC monthly meeting

Duke Pet Tracker Web Application

- Developed a full-stack, multi-user, location-based image sharing web application
- Technologies used: Vue, Express, Google Firebase, Google Passport OAuth

SimplyFrank Simulated Compiler and Assembler

- Created a BASIC-like programming language named SimplyFrank
- Implemented a compiler in C++ to compile SimplyFrank code into simulated assembly code

Skills

Java, Python (sklearn, Selenium, Tornado), C++, Javascript (React, Angular, Vue, Node), R (dplyr & ggplot)
Familiar with Git, Linux, and Docker development environments
Coursework in Data Structures, Computer Architecture, Web Applications, & Data Visualization