Joshua Geden

Student Software Engineer | **+18643733991** | joshgeden10@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EXPERIENCE

Berkeley National Lab, Computational Research Division   Berkeley, CA
Software Engineer Intern   Feb. 2022 - May 2022
- Building software for [AmeriFlux](#), a network of flux research sites across the Americas
- Developing new features and data checks for AmeriFlux's QA/QC pipeline with numpy
- Expanding code coverage by adding to a CI/CD test suite with pytest and CircleCI

MealMe, Inc   San Francisco, CA
Full Stack Developer (Contract)   Jan. 2022 - Feb. 2022
- Responsible for development of the customer support web app, used by a team of over 15 staff
- Implemented numerous features to enable status tracking, order handling, filtering, and refunds
- Wrote and deployed scripts to maintain and query Firebase and MongoDB databases

National Energy Research Scientific Computing Center (NERSC)   Berkeley, CA
Software Engineer Intern | [Blog Post](#)   May 2021 - Aug. 2021
- Built [documentation](#) and [announcement](#) extensions for JupyterLab using Typescript
- Collaborated on a [Slurm UI extension](#) for managing supercomputing jobs in JupyterLab
- Prototyped a [full-stack custom service](#) for JupyterHub to manage launch environments
- Implemented CI/CD pipelines with GitHub actions and Selenium tests

Duke University, Computer Science Department   Durham, NC
Teaching Assistant   Jan 2020 - May 2021
- Instructed classes of 30+ students and directed discussions during group exercises
- Effectively communicated topics such as Big-O notation, graph theory, and data structures

EDUCATION

Duke University   Durham, NC
B.S Computer Science, B.A. Linguistics, German Minor   Aug. 2019 - May 2023
- International Collegiate Programming Club, Volunteer with Technify, Duke in Berlin
- Dean's List all semesters

SKILLS

Software and Programming	Python (Flask, Selenium, pytest, numpy), Javascript/Typescript (Vue, React, Node) Go, C++, R (dplyr, ggplot), Firebase, SQL, Redis, Docker, Linux, Git
Coursework	Data Structures, Computer Architecture, Web Apps, Functional Programming, Data Visualization, Linear Algebra, Probability

PROJECTS & VOLUNTEERING

GroupDuke | [GitHub](#)
Building a full-stack web app to help Duke students find course GroupMe chats
- Reactivate multi-page frontend built with SvelteKit web framework
- Backend built with Go; implemented authentication, registration, and Firebase interactions

Technify | [Website](#)
Volunteer Software Engineer (Me.reka Makerspace)
- Refactored existing Angular components to be modular and easier to maintain long term
- Expanded server infrastructure & database capabilities with Firebase and Firestore

SimplyFrank | [GitHub](#)
Simulated Compiler and Assembler
- Designed and implemented a programming language called SimplyFrank
- Built a compiler and interpreter with C++ to execute SimplyFrank as Simulated Machine Language