

Riley H. Grant

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EDUCATION

NORTHEASTERN UNIVERSITY

M.S. IN COMPUTER SCIENCE

May 2022 | Boston, MA
Breadth in Systems and Software
Breadth in AI and Data Science
Cum. GPA: 3.88 / 4.00

B.S. IN CIVIL ENGINEERING

May 2020 | Boston, MA
Magna Cum Laude, Dean's List
Minor in Comp Sci, Mathematics
Jazz Ensemble, Wind Ensemble
Cum. GPA: 3.77 / 4.00

LINKS

GitHub:// [rileyhgrant](#)
LinkedIn:// [rileyhgrant](#)
<https://rileyhgrant.com>

COURSEWORK

GRADUATE

Building Scalable Distributed Systems
Database Management Systems
Machine Learning
Foundations of AI
Programming Design Paradigms
Web Development
Mobile App Development

UNDERGRADUATE

Object Oriented Design
Algorithms and Data

SKILLS

PROGRAMMING

Strong:
JavaScript • TypeScript
React • Node.js • GraphQL
Jest • Cypress • CI/CD
Kubernetes • Google Cloud Platform
Docker • Redis • Firebase
Java • Python • Shell (zsh)
Familiar:
C++ • R • MySQL • \LaTeX

INTERESTS

Backpacking • Running
Scouting (Eagle) • Biking
Jazz Band • Cooking

EXPERIENCE

BROAD INSTITUTE | ASSOCIATE SOFTWARE ENGINEER

Jul. 2022 - Present | Primarily Remote (Boston, MA)

- Full Stack Developer on the Open Source and Access **gnomAD browser**
- Improving the availability and interpretation of genomic variant information
- Functioning as part of Heidi Rehm's Lab with Biologists and other professions
- Creating additional resources to benefit disease research (**ERBs**, **GBT**)

CODE FOR BOSTON | WEB DEVELOPER - VOLUNTEER

Spring 2021 | Boston, MA

- Collaborated with Developers, Law Students, Client, and Users
- Developed a Full Stack Web App using NextJS, React, NodeJS, and Leaflet

L. A. FUESS PARTNERS | STRUCTURAL ENGINEERING CO-OP

Jul. 2019 - Dec. 2019 | Boston, MA

- Worked on 3+ projects at a time, balancing deadlines and workload
- Created professional models, designs and reports to be sent to Clients

FAITHFUL+GOULD | PROJECT MANAGEMENT CO-OP

Jul. 2018 - Nov. 2018 | Singapore

- Produced hundreds of professional AutoCAD drawings for the F1 Grand Prix
- Thrived in a culturally diverse team and met a demanding timeline

CONTINENTAL DIVIDE TRAIL | THRU HIKE

Apr. 2021 - Sep. 2021 | Mexico to Canada

- Achieved goal of hiking the entire 3,100 mile long CDT
- Overcame frequent challenges including weather, terrain, injury, and reroutes

PROJECTS

GNOMAD BROWSER | REACTJS, PYTHON, GKE | GITHUB

Present | Work at Broad Institute

- A browser for a public dataset with by 150,000+ page views per month
- Web App with React, Typescript, Node, GraphQL, Elasticsearch and Redis
- GKE and Terraform for deployment, Python for data pipelines, GitHub for CI

ALPHAZERO RESEARCH | PYTHON, TENSORFLOW

Spring 2022 | cs7675: Master's Research

- Worked with Professor Karl Lieberherr and the AlphaZero ML Algorithm
- Explored how ML and AI can aid in Software Development, using problems expressible in Recursive First Order Logic

PERSONAL WEBSITE | NEXTJS | WEBSITE

Spring 2022 | Portfolio Website

- A portfolio website made with NextJS, React, and TypeScript
- Exhibits modern responsive design and leverages NextJS for SSG

COOKBOOKS | REACTJS, NODEJS | GITHUB

Spring 2021 | cs5610: Web Dev

- A full stack Web App on React, Express, MongoDB, Storybook and Jest
- Supports users creating, reviewing, liking, and searching for recipes