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
Probability and Statistics

SKILLS

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

INTERESTS

Ultramarathons • Backpacking
Jazz • Biking • Cooking

EXPERIENCE

BROAD INSTITUTE | Associate Software Engineer
Jul. 2022 - Present | Primarily Remote (Boston, MA)
- Full Stack Developer on the Open Source, Open 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
- Developing resources to benefit disease research (**ERBs**, **GBT**, **GeniE**, **VCP**)

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 Next.js, React, Node.js, 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 Revit 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. 29, 2021 - Sep. 11, 2021 | Mexico to Canada
- Achieved goal of hiking the challenging 3,100 mile long CDT, following the Rocky Mountains from Mexico to Canada through NM, CO, WY, ID, and MT
- Overcame frequent adversity including weather, terrain, injury, and reroutes

PROJECTS

GNOMAD BROWSER | React, Python, GKE | GitHub
Present | Work at Broad Institute
- Browser for a complex public dataset with 200,000+ page views per month
- Web App with React, TypeScript, Node.js, 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 | Next.js | Website
Spring 2022 | Portfolio Website
- A portfolio website made with Next.js, React, and TypeScript
- Exhibits modern responsive design and leverages Next.js for SSG

COOKSBOOKS | React, Node.js | GitHub
Spring 2021 | cs5610: Web Dev
- A full stack Web App with React, Express, MongoDB, Storybook and Jest
- Supports users creating, reviewing, liking, and searching for recipes