# THOMAS FENAROLI

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## EDUCATION

**Dartmouth College**, Hanover, NH                                                                                      **Jun 2024**
*Bachelor of Arts in Computer Science Modified with Economics*                                   **GPA 3.87 / 4.00**
- **Relevant Coursework:** Introduction to Programming and Computation, Problem Solving via Object-Oriented Programming, Discrete Mathematics in Computer Science, Algorithms, Software Design and Implementation, Full-Stack Web Development, Foundations of Applied Computer Science
- **Honors:** Second Honor Group (top 15% of graduating class), Citation for Academic Excellence in Full-Stack Web Development (awarded to top ~2% of undergraduates)

## RELEVANT EXPERIENCE

**Appian Corporation**, McLean, VA                                                                           **Jun 2023 - Aug 2023**
*Software Engineer Intern (Scalable Resilient Services Team)*
- Led the high-priority migration of an AWS Lambda function to a Kubernetes cluster service using Terraform, Docker, and Helm after an incident that affected 110+ customer sites
- Identified and addressed a critical bottleneck in the testing of Appian Cloud sites by developing a Bash script that reduced the time needed to test code changes from 1 hour to 5-10 minutes
- Streamlined on-call troubleshooting by developing and unit testing the download functionality of a tool that manages the lifecycle of in-memory database snapshots stored in AWS S3 using Java, Groovy, and Spock
- Designed a proposal for deleting unused customer site data in AWS S3 and presented it to Technical Advisory Council

**Zeal**, San Francisco, CA                                                                                      **Dec 2022 - Mar 2023**
*Software Engineer Intern*
- Spearheaded the development and launch of Zeal's alpha product for mobile, a React Native application that helps users schedule in-person activities centered around common interests using their Google and Apple Calendar data
- Designed and developed a robust event management system using Typescript, React Native, and Firebase that allows end users to view, schedule, and modify group activities
- Collaborated with executives and stakeholders to make defining architectural decisions in the early stages of development
- Facilitated growth in the engineering team by onboarding and advising 3 full-time software engineers

**Digital Applied Learning and Innovation (DALI) Lab**, Hanover, NH                       **Sep 2022 - Present**
*Software Engineer Mentor*
- Collaborate with a team of project managers, software engineers, and designers to build and deploy full-stack web and mobile applications catered to a client's needs over the course of 10-week sprints
- Mentor new lab members throughout the software development lifecycle, aiding in their mastery of web, mobile, and back-end technologies like React.js, Express.js, Node.js, and MongoDB
- Present final product to 350+ clients, students, and faculty at quarterly showcase

## PROJECTS

**Measuring Digital Media Exposure** (with the DALI Lab)                                         **Mar 2023 - Jun 2023**
- Developed a full-stack web application for the Dartmouth Geisel School of Medicine using React.js and Firebase to monitor adolescent digital media usage and display that information to researchers in a visual format
- Will be used in an upcoming study by the medical school's Media and Health Behaviors Lab involving 220+ research participants

**Tiny Search Engine**                                                                                          **Oct 2021 - Nov 2021**
- Built a tiny search engine that allows the user to run queries against an internal data structure constructed by recursively parsing dozens of web pages starting from a seed URL
- Used C, Bash, and Makefile to develop crawling, indexing, and query-parsing logic

**File Compressor**                                                                                             **Apr 2021 - May 2021**
- Developed a lossless file compressor in Java using the Huffman encoding algorithm to reduce the disk space and transfer time associated with large text files
- Reduced file size by an average of 44% when tested using input files containing up to 565,000 words

## SKILLS

**Technical Skills:** Python, Java, C, JavaScript, Typescript, Groovy, React.js, React Native, Redux, Node.js, Express.js, NoSQL, HTML, CSS, AWS, GCP, Terraform, Kubernetes, Docker, Helm, GitOps, Git, Bash, Spock
**Languages:** Proficient in Spanish and Swedish (dual US/EU citizenship)
**Additional Interests:** Golf, Fly Fishing, Reading, Sailing, Music, and Photography