HARRY PREVOR
Full Stack Engineer

habs@sdf.org (primary email)
hpr@upenn.edu
516-835-8808
linkedin.com/in/hapre
https://github.com/hpr
https://habs.sdf.org

SKILLS
Programming Languages
Proficient
- HTML/CSS/JavaScript
- TypeScript
- Python
- Shell Scripting

Familiar
- Java
- C
- Lua
- Common Lisp
- SQL
- Ruby

Frameworks and Libraries
NodeJS
Spring Boot
AG Grid
Glue42 / Interop.io
React / Redux
Angular
React Native
Sequelize
BeautifulSoup
NumPy
Ruby On Rails
Firebase

Data and Technologies
SQL, GNU/Linux, LaTeX, Emacs

EDUCATION
Fullstack Academy
Web Development Program
Dec 2019 - April 2020

University of Pennsylvania
Coursework in Computer Engineering
Aug 2015 - May 2019

Relevant Coursework:
Computer Architecture, Data Structures and Algorithms, Discrete Mathematics, Operating Systems

Campus Involvement:
Penn Club Track & Field President (2018), VP (2017)
Penn Sport Club Council VP (2018), Secretary (2017)
Penn for Privacy Event Coordinator (2016)

WORK EXPERIENCE

Software Engineer - **Millennium Management**   **08/2021 - present**
- Developing internal applications for traders at flagship hedge fund, working in NYC office
- Primary front-end developer for Trader Workflow Tool, CDI App, and Ref. Data Service 2.0
- Collaborate on a daily basis with engineers in Singapore, London, and Miami offices
- Writing Spring Boot server code as well as TypeScript + React, Angular (v1 & 2), AG-Grid, Bootstrap / MaterialUI frontend stacks following Agile and continuous delivery practices
- Implementing UI/UX best practices, authored React Dark Matter component styling library
- Writing web applications integrated into the Windows desktop with Glue42 API

Bootcamp Prep Instructor, Teaching Fellow, Mentor - **Fullstack Academy**   **04/2020 - 01/2023**
- Instructing students on full stack web development in premier NY coding bootcamp
- Creating teaching materials and practice algorithm presentations
- Responsible for conducting technical interviews with applicants
- Instructing advanced lessons in NodeJS with React and Redux, administering support forums
- Acting as project manager of teams of 3-5 engineers building full stack web apps
- Performing at times over 100 hours per month of paid private programming tutoring in addition to the above duties

Editor (Intern) & Software Developer (Contract) - **FloSports (FloTrack, MileSplit)**   **06/2017 - 01/2018**
- Developed automation and data collecting scripts to mass-tag copyright information and auto-generate weekly results articles
- Authored 100+ analytical articles for FloTrack and other FloSports verticals, examples:
  - *https://www.flotrack.org/articles/5068631*
  - *https://www.flotrack.org/articles/6006560*
- Reported & performed in videos & podcasts covering professional track & field

TECHNICAL PROJECTS

Fantasy Diamond League - Typescript, Mantine — *https://hpr.github.io/eugene23*
- Created series of prediction contests / fantasy track and field leagues complete with team creation, live scoring, competition, and interactive event-by-event previews including AI guidance on favorites. Free prizes ($250+ value) sponsored by LetsRun.com.
- Created TrackBot Match, a standalone tool using AI to predict and preview hypothetical races with athletes from different time periods (*https://hpr.github.io/match*)

Townhall Project - HTML5 + JavaScript, PHP, SQL
- Created civic platform for stakeholder democracy for Penn Engineering Senior Design
- Recipient of the Societal Impact Award ($1000 prize)

GSA League Tracker - Python 3, Bootstrap, Chart.js — *http://sbah.sdf.org/*
- Developed automated system for tracking and summarizing league performances for the Global Speedrun Association, creating stats that were later featured at a live event in Laurel, Maryland

McCarthy Math - Common Lisp — *https://habs.sdf.org/mccarthy-math/*
- Explored implications of list-based arithmetic
- Derived base-10 representation and several operations from only primitive LISP functions with no numerical datatype

TrackBot - Python, BeautifulSoup, SQL — *https://habs.sdf.org/trackbot/*
- Created "TrackBot" from scratch, a web crawler that scanned 500,000+ LetsRun.com posts
- Used logic and database queries to provide automated responses to requests such as obtaining the best marks of an athlete, comparing two athletes via head-to-head record, and more

wikiTrackBot - MediaWiki, Wikidata, Pywikibot — *https://w.wiki/4Wm*
- Ongoing campaign to add over 1 million track and field performances to Wikipedia and Wikidata
- Created hundreds of athletics Wikipedia pages, the most ambitious data collection project in track and field
- Example of work performed: *https://en-wp.org/wiki/User:Habst/Created_pages*

Wiktionary Swahili Corpus - Lua, MW Templates — *xtools.wmcloud.org/ec/en.wiktionary.org/Habst*
- Defined 2,000+ Wiktionary Swahili-language lemmas
- Created Lua scripts generating the world's most comprehensive Swahili verbal conjugation template

Unicorn - Node, React+Redux — *https://github.com/the-mythical-horses/unicorn*
- Wrote a universal search engine comparator to draw distinctions between people or concepts, with over 95,000,000 entities to compare from

VOLUNTEER EXPERIENCE

Representative - **Free Software Foundation**   **2016-2019**
- Worked directly with the organization to promote software freedom and inform attendees
- Represented the foundation in New York at HOPE XI & XII conferences
- Co-organized FSF President's visit to University of Pennsylvania