Max Krieger

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portfolio: a9.io
github: @maxkrieger

Experience

CMU Penrose Group - Researcher
Fall 2018 - Present | Pittsburgh | penrose.ink
Defining the end-user experience for the Penrose project, which renders abstract mathematical concepts with intuitive visualizations.

Flexibits - Software Engineering Intern
Summer - Winter 2018 | Remote | flexibits.com
Developed and deployed scalable services to users of Fantastical, an award-winning, top-ranked iOS and Mac app.

MIT CoCoSci Group - Researcher
Summer - Fall 2017 | Cambridge | cocosci.mit.edu
Conducted original research on program synthesis using techniques derived from human-inspired cognitive science and machine learning.

Formlabs - Web Engineering Intern
Summer 2017 | Somerville | formlabs.com
Developed and designed internal and user-facing projects for the global 3D printing market.

Projects

Semantic Calculator
Launched August 2018 | semantic.a9.io
A tool for exploring how word embeddings relate to each other through an interactive REPL interface. Experimented with interfaces that facilitate understanding of machine learning models.

LiquidTime
Launched October 2016 | liquidti.me
A time management and planning app to help fight procrastination. Featured on the front page of Hacker News and Product Hunt and has logged hundreds of hours of users' productivity every month.

Education

Carnegie Mellon University
2018 - 2022 (expected)
BSc. Cognitive Science
Dean's List with High Honors.

Selected Courses
Principles of Imperative Computation
Principles of Functional Programming
Concepts of Mathematics
Matrices and Linear Transformations
Interpretable Machine Learning
Design Thinking for Complex Systems
Cognitive Psychology

Publications

Defining Visual Narratives for Mathematics Declaratively
Max Krieger, Wode Ni, Joshua Sunshine
Preprint. PLATEAU (workshop at UIST) '19

Skills

User Interface
Sketch 3, Figma, Javascript (ES7), Typescript, React.js, React Native, Redux

Backend
Django, Express, Go, Python, Java, Kotlin, GNU/Linux, Docker, Kubernetes, Terraform, AWS, GCP

Functional and Formal
OCaml/ReasonML, Elm, Haskell, Type Theory