Parker Ziegler

Ph.D. Student • Programming Languages, HCI, Visualization
Department of Electrical Engineering and Computer Sciences
University of California, Berkeley • Berkeley, CA, USA

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EXPERIENCE

Software Engineer IV • Formidable

Jan 2018 – Jun 2021 • 3.5 years • Seattle, WA

- Led frontend web development for teams of 3+ software engineers, architecting large-scale web applications for clients in computational biology, productivity modeling, fintech, and e-commerce
- Authored multiple open-source libraries, including renature, rescript-urql, and next-urql; core contributor to urql
- Awarded the 2019 Formidable Open Source Fellowship
- Invited speaker at StrangeLoop and Seattle React.js

Geospatial Developer • Integral GIS

Nov 2016 – Dec 2017 • 1 year • Seattle, WA

- Led frontend web development of FrameWork, a geospatial analysis system for the Pacific Northwest Regional Council of Carpenters
- Developed FrameWork's Express server for handling CRUD operations
- Created an internal design system of React components used across Integral GIS applications

Summer of Maps Fellow • Azavea

May – Sep 2016 • 4 months • Philadelphia, PA

- Led software development, statistical modeling, and cartographic design for geospatial analysis projects with partner non-profits
- Developed an interactive web application for visualizing spatial relationships between traffic violence and poverty indicators in NYC
- Created novel change detection and canopy classification algorithms to analyze change in Portland, OR's urban canopy

EDUCATION

Ph.D. Computer Science • UC Berkeley

Aug 2021 – Present • 1.5 years • Berkeley, CA

Advisor: Sarah E. Chasins
Teaching: Programming Languages and Compilers

B.A. Geography and Arabic • Middlebury College

Sep 2012 – May 2016 • 4 years • Middlebury, VT

Phi Beta Kappa, Summa Cum Laude

ABOUT

I'm a cartographer turned computer scientist seeking to build the next generation of programming languages and interfaces for analyzing and visualizing geospatial data.

TOOLS

Programming Languages

`TypeScript` `JavaScript` `HTML` `CSS` `Python` `Rust` `OCaml` `ReScript` `SQL`

Frameworks & Libraries

`React` `Next.js` `D3` `Git` `Node.js` `GraphQL` `Jest` `Terraform` `Mapbox`

Software

`QGIS` `Sketch` `Illustrator` `Google Earth Engine`

SKILLS

- Web Development
- User Interface Design
- Programming Language Design
- Compilers
- GIS
- Cartography
- Remote Sensing