

# Kiana Hosseini **Software Engineer**

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## EDUCATION

### Yale University / Master's Degree

AUGUST 2013 - MAY 2016, ARCHITECTURAL SCIENCES & TECHNOLOGY

- Dilworth Scholarship For Outstanding Design & Academic Performance.
- David Schwarz Travel Fellowship (Awarded based on portfolio and proposal).
- Computational design focus. Thesis: Programmed a "parametric" tower using Python, Rhino, and Grasshopper.

### University of Tehran / Bachelor's Degree

SEPTEMBER 2008 - MARCH 2013, ARCHITECTURAL ENGINEERING

- 1st entrance rank (Class of 2013) + Member of Exceptional Talents (Top 5% GPA).
- 99.999 percentile for Mathematics National Exam in Iran (69th among 300,000 participants).

## PROJECTS

### Tweet Streamer [live](#) | [github](#)

Node.js | PostgreSQL | PostGIS | Sequelize | WebSockets | JavaScript | React | MapBox | Material UI

Fullstack app displaying live stream, sentiment analysis, & weekly history of ~1% of worldwide tweets.

- Engineered data pipelines using Node.js to process ~5 million tweets/day & push to clients over websockets.
- Leveraged cron routine and PostGIS to store hourly geospatial aggregates in a Postgres database.
- Designed and implemented user interface w/ React, Mapbox, and Material UI to display interactive tweet maps.

### Lake Hopper [live](#) | [github](#)

Ruby on Rails | PostgreSQL | AWS S3 | REST APIs | JavaScript | React | Redux | MapBox | Material UI

Fullstack app for backpackers to save trips along with routes, photos, notes & activity analysis.

- Developed Rails server, API endpoints, Postgres database, and integrated AWS S3 to save images.
- Built custom .tcx parser w/ Javascript to extract activity data & GIS coordinates from smartwatch.
- Enabled custom route creation (with distance and elevation estimate) using MapBox GL & Google Maps API.

## SKILLS & COURSES

Python, JavaScript, Ruby on Rails, SQL, React, Redux, Node.js, PostgreSQL, Webpack, Git, CSS, HTML, Figma.

- App Academy Open: 1,000 hour full-stack development curriculum.
- MIT OpenCourseWare: 6.001 (CS & Programming in Python), 6.002 (Computational Thinking & Data Science), 6.006 (Intro to Algorithms), 6.046 (Design & Analysis of Algorithms).
- Coursera: Stanford Algorithms Specialization, UC San Diego Interaction Design Specialization.
- FreeCodeCamp Certifications: JavaScript & Data Structures, Frontend Libraries, APIs & Microservices.

## EXPERIENCE

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### **WRNS Studio - Architect**

NOVEMBER 2018 - PRESENT , SAN FRANCISCO

- Created scripts and workflows using Python, Dynamo, and Revit API to automate program optimization, transfer data, and perform complex 3D modeling/technical coordination. Utilized my coding skills at every phase to automate and optimize the typically labor intensive aspects of architectural design.
- Developed large-scale projects from early conception to construction: Reimagined educational and work spaces, created plans to rehabilitate a polluted site into a sustainable tech campus, and planned an urban core to bring a community together - all while balancing complex programmatic, technical, financial, and aesthetic parameters.
- Mentored junior staff for design development, technical skills, and software training.

### **Perkins Eastman - Architectural Designer**

JUNE 2017 - NOVEMBER 2018 , SAN FRANCISCO

- Coordinated the construction of the critical path (operation rooms and technical facilities) of the \$2 billion New Stanford Hospital. Resolved over 100 complex construction conflicts on-site while coordinating electrical and mechanical engineers, contractors, consultants, and client representatives.
- Created VR model reenvisioning the Stanford Medical Campus public spaces using Lumion and Enscape.

### **M-Rad Inc. - Designer**

JUNE 2016 - JUNE 2017 , LOS ANGELES

- Managed development of 10,000 sf high-end modern residential project in Beverly Hills. Led design from early conception through complete construction documents.
- Designed everything from space layout and exterior envelope to interior finishes and technical details, while balancing complex structural, building code, and zoning requirements for hillside construction.