

# 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).

## SKILLS & COURSES

Python, JavaScript, Ruby on Rails, SQL, React, Redux, Node.js, Java, 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.

## 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 from smartwatch.
- Enabled custom route creation (with distance and elevation estimate) using MapBox GL & Google Maps API.

### Covid Killer [live](#) | [github](#)

JavaScript | HTML Canvas

2D Game w/ object-oriented design, simulating the spread of coronavirus based on controlled parameters.

## EXPERIENCE

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### **WRNS Studio - Architect**

NOVEMBER 2018 - PRESENT , SAN FRANCISCO

- 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.
- Utilized my coding skills at every phase to automate and optimize the typically labor intensive aspects of architectural design. Created scripts and workflows using Python, Dynamo, and Revit API to automate program optimization, transfer data, and perform complex 3D modeling/technical coordination.

### **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.