

Daniel Ra

Product Designer + Software Engineer

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Experience

Graduate Student Software Engineer

Jan.2018 - Present

Microsoft | New York, NY

- Engineered a diagnostic tool for identifying service fabric clusters at scale. Accounted for varying view sizes, and large data sets.
- Led a team of five in a coordinated effort with stakeholders to handle requirements. Worked together to research, design, and test the user-interface.

Graduate Student Software Engineer

Aug.2018 - Jan.2019

Morgan Stanley | New York, NY

- Worked in the ELK stack to create an indexing system based off 1,000 random log entries. Built scalable pipelines that visualized data via Kibana for analysts.
- Researched, and designed the UX for the dashboard. Built out interactive prototypes for testing. Coded an alternative Angular, Hadoop, D3 architecture.

User Experience Design & Engineering Intern

Oct.2017 - Aug.2018

T-Mobile | Bellevue, WA

- Researched, designed, and developed an internal contracting portal for teams within the org. Optimized organizational spending on third party vendors by 8%.
- Developed, designed an Elasticsearch based distributed file system. Worked in Docker, Jenkins, S3, and Artifactory to deploy a cloud architecture at scale.

User Experience Design & Engineering Intern

Jun.2017 - Aug.2017

SAP | Bellevue, WA

- Implemented accessibility features for the visually impaired, conducted additional research to optimize the hand off of assets to engineers by up to 21%.
- Designed, developed, and released a feature for SAP's travel expense application in Swift. Created interactive prototypes in Proto.io for user testing.

Software Engineering Intern

Oct.2016 - June 2017

T-Mobile | Bellevue, WA

- Leveraged big data to bin packet losses more effectively using SQL, and Python. Imported this data into Tableau to map frequency distributions amongst cities.
- Programmed a M.E.A.N based application that automated legacy tools for customer service reps, officially rolled out to 12 call centers.

Projects

VR Graduate Researcher, Cornell Virtual Embodiment Lab

Jan.2019 - Present

Exploring the therapeutic effects that virtually simulated environments have on chronic pain relief. Pilots are being tested within clinics at Stanford University.

H Heist Published iOS App Store Application

Dec.2011

Developed, designed, and published a mobile game based on Hillary's email scandal.

Genesis (Genome Sequencing Analysis Platform)

Oct.2016

Collaborated with UW Researchers to develop a DNA sequencing program that helps geneticists analyze information more efficiently.

Founder, Identity Studio LLC.

Sep.2008 - Jan 2010

Created a platform that connected design students from across the globe with opportunities in Seattle. Worked with clientele to draft over 32 Design Briefs.

Education

Master of Computing Information Science | Engineering

Jan.2020

Cornell University, Ithaca

Skills

Design

User Testable Interactive Prototypes
Mobile, and Web User Interfaces
Wireframing, and Mockups
Information Architecture
Interaction Design
Storyboarding
Matte Painting
Illustration
Branding

UX Methods

Design Thinking, Double Diamond
Qualitative, Quantitative Methods
Contextual Interviews
Competitive Analysis
Affinity Diagramming
Preliminary Surveys
Heuristic Evaluation
Paper Prototyping
Persona Creation
Usability Testing
Card Sorting

Software Tools

Invision, Proto.io, Framer
Adobe After Effects
MSQL Workbench
Adobe Photoshop
Adobe Illustrator
Raspberry Pi
Basalmiq
Postman
Tableau
Sketch
Alteryx
Xcode

Development

RedHat Linux | Docker | S3 | Alexa Toolkit
Javascript | Node | AngularJS | MongoDB
Logstash | Elasticsearch | Kibana | Beats
Swift 4 | Sockets | Core Data | Firebase
Python | Django | Shell Automation | R
Data Structures | API Architecture
HTML | CSS | JQuery | Bootstrap
MySQL | NoSQL | ERD Diagrams
Git | AWS CLI

Hobbies

Building computers, Fixing electronic devices, Arduino rapid prototyping, Photography, Hifi audio, Reading

[See back for more details.](#)

Bachelor of Biology, Concentration Molecular | Minor: English

Jun.2018

University of Washington, Seattle

Bachelor of Computer Information Systems | Networking

Jun.2018

Bellevue University, Omaha

Awards & Achievements

Featured on Issues # 48, and 55 of Advanced Photoshop International Magazine

2x Winner of the Adobe Creative Suite National Competition hosted by Behance

Semi-Finalist of the Nvidia Speak Visual Design Digital National Competition

Contributor to the Alpine Flowers of Mt. Rainier Burke Museum Publication

University of California, San Diego Interaction Design Specialization Cert.

Coding Dojo Full Ride (\$12,000) | Impact Scholarship Recipient

Featured on Issue # 3 of Our USA Magazine

Staff Photographer Cornell Daily Sun