

Daniel Ra

Software Engineer + Product Designer

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Experience

Software Design Engineer II

Aug.2020 - Present

SAP | Seattle, WA

- Built a completely serverless diagnostics platform for the release management team to gain increased insights into anomaly detection by upwards to 35%.
- Contributed to the SAP Fiori OpenSource React Library. Full-Stack engineered a commercial GUI for automation deployment tools used by over 400 engineers.

Graduate Software Engineer

Feb.2019 - Jun.2019

Microsoft | New York, NY

- Led a team of six graduate students to work alongside executives on building a diagnostic tool for identifying service fabric clusters at scale.
- Spearheaded design methodologies to uncover solutions that would later be incorporated into the user interface. Translated these mocks up into code.

Graduate Software Engineer

Aug.2018 - Jan.2019

Morgan Stanley | New York, NY

- Worked in the ELK stack to create an indexing model based off a 1,000 potential combinations. 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.

Full-Stack Software Engineering & Design 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 Intern

Jun.2017 - Aug.2017

SAP | Seattle, 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 Researcher, Cornell Virtual Embodiment Lab

Jan.2019 - Current

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.

Skills

Development

API Gateway | Lambda | DynamoDB | EC2
JavaScript | React | AngularJS | MongoDB
Jenkins | Artifactory | Docker | Kubernetes
Logstash | Elasticsearch | Kibana | Beats
Arduino | Breadboard Circuits | Rasp Pi
Swift 4 | Sockets | Core Data | Firebase
Python | Django | Shell Automation | R
Oculus VR Development | Unity | C#
Data Structures | API Architecture
HTML | CSS | JQuery | Bootstrap
SQL | NoSQL | ERD Diagrams
Git | AWS CLI

UX Methods

Autobiographical, Reflective Design
Design Thinking, Double Diamond
Quantitative, Statistical Methods
Competitive Analysis
Affinity Diagramming
Design Ethnography
Contextual Inquiries
Heuristic Evaluation
Preliminary Surveys
Paper Prototyping
Usability Testing
Cultural Probes
User Personas
Diary Studies
Card Sorting

Design

Physical, Digital, Hardware Prototyping
Wireframing, and Mockups
Information Architecture
User Interface Design
Interaction Design
Storyboarding
Matte Painting
Color Theory
Typography
Illustration
Branding

Hobbies

Building computers, Fixing electronics,
Photography, Film Production, Hifi
Audio, Entrepreneurship, Reading

[See back for more details.](#)

Education

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|---|----------|
| Master of Computing Information Science Engineering Cornell University, Ithaca | Jan 2020 |
| Bachelor of Biology, Concentration Molecular Minor: English University of Washington, Seattle | Jun.2018 |
| Bachelor of Computer Information Systems Networking Bellevue University, Omaha | Jun.2018 |

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
University of Washington, Bellevue University, Cornell University Dean's List
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.
Top 2% of North American League of Legends Ladder Ranking
Coding Dojo Full Ride (\$12,000) | Impact Scholarship Recipient
Featured Designer on Issue # 3 of Our USA Magazine
Published Photojournalist on Business Insider