

## Summary

Creative, detail-oriented graduate student with deep interest in software development and machine learning. Proven track record of creating and implementing successful front and back-end web applications. Motivated to bring efficient and object-oriented style of programming to a company.

## Professional Experience

### Software Engineer, 100 Developers Agency

01/2022 – present | Los Angeles

- Collaborated with a team of developers to build modern and responsive web applications using best practices
- Built semantically structured stack web applications
- Applied agile methodologies like SCRUM for project management

### Freelancing Web Applications, GitHub [↗](#)

12/2021 – present

Worked closely with various clients on the creation of their aspired websites with contracts up to \$3,400. Designed minimal, efficient codes for a clean website interface/design.

Notable projects:

- Astral Speed Typing App (fetching APIs, async/await, loops)
- Janus London | Watch e-commerce (React, CSS grid, CSS variable)
- Monterey Hills Suits e-commerce (spotlights, dropotron)
- Professional profile webpages and portfolios.

### Assistant Researcher III, UC Davis School of Medicine

11/2018 – 02/2021

I contributed to several successful software focused brain-related projects for the lab of Britany N. Dugger, PhD. [↗](#)

Projects:

- Implemented machine learning to automatically segment Amyloid- $\beta$  protein brain tissue. This allows for efficient diagnosis of neuropathologies. (published)
- Using brain image analysis softwares, I calculated the presence of tau proteins in peripheral tissues across Alzheimer's Disease stages.
- Annotated cerebral amyloid angiopathy (CAA) for deep learning, thus improved the identification of amyloid neuropathologies.

## Publication

### BrainSec: Automated Brain Tissue Segmentation Pipeline for Scalable Neuropathological Analysis, IEEE [↗](#)

11/2020

Convolutional neural networks (CNN) are used for machine learning and U-Net infrastructure on segmenting neuropathologies that are present in both grey and white matter of the brain.

## Volunteer

### Hack for LA

07/2022 – present | Los Angeles, California

- Worked with other developers in the interface portion of an application each week. Current focus is on UI/UX and React.

# Nicholas K. Hu

## Software Engineer

[📍](#) California

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## Skills

JavaScript

HTML

CSS

React

Vue

React Native

Node.js

MongoDB

OOP

PostgreSQL

## Education

### University of Southern California

2022 | Los Angeles, CA  
Gerontology M.S.

### University of California, Davis

2016 – 2020 | Davis, CA  
Neurobiology B.S.

## Interests

- UI and UX Design
- Search Engine Optimization (SEO)
- Computer building

## Awards

**Merit Scholarship Award,**  
USC Leonard Davis 2021

**Community Service Award,**  
UC Davis Medical Center 2020