

# Cyrus Javan

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## Employment:

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### Software Engineer @ BetterHelp

April 2019 - Present

- Developing features in PHP and JavaScript for a mental health counseling platform that improve user experience and drive product success.
- Enhanced the infrastructure by redesigning a websocket server to scale from a single machine to a distributed set of machines to handle a higher amount of connected clients and be highly available.
- Implemented a quality score for counselors and integrated it into the counselor matching algorithm, prioritizing high quality counselors and increasing revenue per signup by 5%.
- Built an engagement bar that showed counselors how much they had been interacting with their clients to increase correspondence rates.
- Created a feature to encourage users to book live counseling sessions, required coordinating multiple cron jobs and user attributes to contact users at appropriate times with the correct messaging.
- Write and review code on an Agile team, build and test code using a CircleCI pipeline and deploy with Nomad.

### Software Engineer Intern @ Accuray

June 2018 - August 2018

- Implemented new features in C++ for the user interface of the next generation CyberKnife that increased treatment accuracy.
- Redesigned Qt components for a DICOM image viewer using OpenGL shaders.
- Refactored C++ classes to improve readability and conform to new requirements.

## Open Source:

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### Dovii | [github.com/CyrusJavan/dovii](https://github.com/CyrusJavan/dovii)

2020 - Present

- Building a distributed key-value data store with Go utilizing the RAFT consensus algorithm and log structured merge trees based on the Bitcask protocol.

### Video Face Detection Web App

March - June 2018

- Lead a team of 4 to develop a web app to perform face detection and eye gaze tracking with C++.
- Reduced processing time by 40% by parallelizing the detection pipeline with pthreads.
- Eliminated majority of disk reads/writes by keeping video frames in memory while processing.

### Personal Portfolio | [github.com/CyrusJavan/portfolio-new](https://github.com/CyrusJavan/portfolio-new)

2019 - Present

- Maintain a personal portfolio site to showcase projects and resume information.
- Develop in Go using the Gin web framework and deploy on Heroku.

### MyStory: Online Diary | [mystory.herokuapp.com](https://mystory.herokuapp.com)

February 2019

- Built a web app using Node and ExpressJS where users upload stories to be shared publicly or kept private, and comment on others stories, deployed to production with Heroku.
- Used MongoDB with MongooseJS to store user information, stories and comments.

## Skills:

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**Languages:** PHP, Go, JavaScript, SQL, C++, Python, Bash, HTML, CSS

**Tools:** Git, Linux, AWS (S3, Fargate), Heroku, GCE, Docker, Docker Compose, Kubernetes

**Frameworks/Libraries:** Gin, Socket.io, Node.js, ExpressJS, Elastic Stack, React, Bootstrap, jQuery

## Education:

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### San Jose State University

2014 - 2018

Bachelor of Science in Computer Science

Honors: Dean's List, Cum Laude