

# NICOLAS LA POLLA

951-741-1240 ◇ nlapolla@ucsd.edu ◇ linkedin.com/in/nicolaslapolla ◇ github.com/nicolaswl

## OBJECTIVE

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Full stack developer and obsessive tinkerer seeking a software engineering internship for the 2021 summer to direct my web development, design research, and project team experience toward an impact in at least one user's life.

## EDUCATION

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**University of California, San Diego**

**September 2018 - June 2022**

*B.S. Computer Science*

*Overall GPA: 3.78/4.00*

**Awards**

*University of California - Regents Scholarship Recipient*

**Honors Societies**

*Eta Kappa Nu - Kappa Psi Chapter, Tau Beta Pi - California Psi Chapter*

## TECHNICAL STRENGTHS

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**Languages**

Java, C++, C, Python

**Web**

React, React Native, NodeJS, Express, Mongo, HTML/CSS

**Software & Tools**

LaTeX, BASH, Linux, GIT, AWS

## PROJECTS

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**Yip - Community Based Reviews**

**ncks.link/Eunso**

- Collaborated with a project team in designing and implementing a ReactJS front end interface to facilitate the creation, use, and moderation of nuanced review communities
- Coordinated with simultaneous development of a Rust backend and PostgreSQL database to discover bugs and make improvements in API design and database queries
- Created user stories and test cases to prepare the production build of the app for deployment to AWS

**Key Conservation (TSE) - Social Network for Nonprofits**

**ncks.link/HGLco**

- Added an indexing and linking feature for posts and profiles to a React Native frontend to better enable nonprofits to advertise their cause and find contributors
- Refactored and optimized outdated parts of a large codebase by frequently organizing meetings with current and former development teams to decipher legacy design choices
- Debugged various aspects of the app's API to identify key issues in authentication that hindered development

**Six Degrees of Kevin Bacon**

**ncks.link/8eB61**

- Designed an IMDB movie web scraping process to build a spreadsheet of movie and actor relationships
- Parsed spreadsheets into a graph database and designed an API for a client to connect actors through movie-actor relationships and get their corresponding metadata
- Currently devising a React/Vue client interface to create a game that would enable users to attempt connecting actors in as few links as possible

## EXPERIENCE

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**Triton Software Engineering (TSE), UC San Diego**

**September 2019 - Present**

*Developer*

- Key Conservation Team React Native/Node
- Internal Recruitment Tool Backend Email Service Team Node/Mongo
- Internal Recruitment Tool Backend Database Management Scripts Team Python/Mongo

**Design Lab, UC San Diego**

**September 2018 - September 2019**

*Research Assistant*

- Facilitated research in novel design by leading participants in experiments meant to affect ideation
- Summarized and analyzed data for presentations to audiences of varying technical literacy
- Optimized collection of data through shell scripting, audio transcription (Google Cloud API), and custom spreadsheet functions

## RELEVANT COURSES

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Computer Organization and Systems Programming  
Mathematics for Algorithms and Systems  
Design and Analysis of Algorithms

Advanced Data Structures  
Data Science in Practice  
Software Engineering