# Timothy Simanhadi

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## EDUCATION

**University of California, Irvine**                                                                                                *June 2022*
B.S. in Computer Science

## TECHNICAL SKILLS

**Programming Languages:** Python | C++ | Java | JavaScript | CSS | HTML | SQL | MIPS Assembly | R
**Concepts:** Data Structures | Algorithms | Agile Development | Object-Oriented & Relational Programming | Asymptotic Analysis
**Software/Platforms:** Git | AWS | Office 365 | MySQL | MongoDB | ServiceNow | SharePoint | Figma | Trello | Heroku
**Web Frameworks:** Django | React JS | Angular JS

## RELATED EXPERIENCE

**California Department of Technology,** *IT Student Assistant*                                           *September 2020 - Present*
- Procure multibillion-dollar tech vendors as part of the Statewide Technical Procurement (STP) team by evaluating and assessing to provide cutting-edge technology for California state departments
- Design-and configure STP applications in Angular JS to automate the selection process of qualified vendors
- Create and query STP databases to measure and assess vendor data
- Generate data and quality control reports for every IT procurement and contract document in an electronic format

## PROJECTS

**Treat Yo'Self (Python, CSS/HTML, React JS, MongoDB, Django, Figma, Git, Chart.js)**
- Directed a team of three to design and develop an easy-to-use full-stack budgeting web application that allows users to set monthly budgeting goals, create/update/delete categories and transactions, and visualize their data through Chart.js
- Utilized Django models, Serializers, Axios pull/get requests and APIs to send data between Django backend and React frontend while also being linked to a MongoDB database
- Improved data security and scalability of application by utilizing web tokenization
- Increased code readability and organization by leveraging React routers, classes, and hooks

**Foto Fitness (Python, AWS, Rekognition API, S3 Bucket)**
- Led a team of two during SD Hacks to ideate and develop a nutrition tracker web application in 48 hours that allows users to upload pictures of nutrition labels, enter a serving size, and keep track of daily calorie count, fats, etc.
- Utilized AWS Rekognition API and Amazon S3 Bucket to read, store, and retrieve user images of nutrition labels
- Wrote the backend for the app using python to parse JSON files and analyze/calculate nutritional information per serving

**Maze Generator & Solver (C++, Google Tests)**
- Implemented depth-first search algorithm to generate a maze for a university course project
- Went beyond project requirements and wrote three maze solvers using Depth-first search, Dijkstra's, and A*
- Wrote Google Unit Tests to incrementally test and debug algorithm class methods

## LEADERSHIP

**Indonesian Students @ UCI,** *Events & Operations Director*                                          *September 2020 - Present*
- Brainstorm and initiate club's first-ever virtual events on Zoom such as virtual escape room for 100+ members
- Partner or Outreach with other clubs at UCLA, UCSD, and LMU to grow club membership by collaborating on joint events
- Meet with board members each week to discuss important decisions for the club

**Self-Employed,** *Piano Teacher*                                                                            *June 2018 – September 2019*
- Started private and local piano tutoring business to provide weekly beginner lessons for students ages 8-12
- Quadrupled client base in 2 months through referrals and advertising on NextDoor community app
- Brainstormed more effective engagement/learning techniques to increase quality, pace, and impact of piano lessons

**Mira Loma Dance Marathon,** *Director of Communications*                                          *October 2017 – December 2018*
- Planned, managed, and directed a dance competition for 100+ participants as a fundraiser, raising over $3200 for UC Davis Children's Hospital oncology patients from dance competition alone
- Oversaw the day of events such as managing volunteers, delegating tasks, and facilitating transitions between events