# SAMUEL VO

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## EXPERIENCE

### Manager — Panera Bread                                            Jun 2021 — April 2024

- Strategic, retroactive evaluation of inventory sales-figures to decrease food costs by 103%
- Effective coordination between and to team members — schedules, shifts, and responsibilities
- Proactive future-proofing with catering coordination and direction for larger organizations
- Constant, intuitive consolidation between labor needs and projections to decrease costs by 27.8%

### CS & STEM Tutor — Gavilan College                                 Jan 2023 - Aug 2024

- Reconciled mathematical foundations by developing relationships between equations/techniques & real-world problems and context
- Tutored all levels of math and physics, up to introductory Quantum Mechanics and Linear Algebra/Differential Equations
- Tutored all CS courses, teaching coding paradigms, common libraries, debug tactics, & logic errors

### Fullstack Developer Intern — San Jose State University            May 2023 - Dec 2024

- Developed mobile-responsive webpages for OAuth protocol and other such user-facing pages
- Utilized Spring Boot & WireShark to develop REST API Handlers for endpoints in accordance with ActivityPub protocol, as well as other S2S and Client-Server requests in IntelliJ
- Stored and managed account data in organized databases utilizing MongoDB, then securing with hashing and salting
- Leveraged WebFlux, making requests non-blocking and boosting efficacy with event-driven parallelism

### Classical Mechanics Physics Teaching Assistant — Gavilan College   Jan 2024 —Jun 2024

- Directed liaison between professor and students, making announcements and responding to emails
- Facilitated weekly academic workshops to enrich students with physics concepts and mathematical derivations
- Supported exam preparation amongst students by tailoring study strategies and outsourcing material

### Materials Science Intern — KC Research Group                       May 2024 - Current

- *Incoming Position*

## EDUCATION

### Computer Science, A.S — Gavilan College                           2021 — 2023

### Mathematics, A.S — Gavilan College                                2022 — 2024

### Physics, A.S — Gavilan College                                    2022 — 2024

- 3.90 GPA
- CS Club, Engineering Club Project Manager, MESA, STEM Academy

### Computer Science, B.S — University of California, Santa Cruz       2024 — Current

## RELEVANT COURSEWORK

- Python Programming, C++, C++ II, UNIX/LINUX Operating Systems, Discrete Structures, Computer Architecture, Webpage Authoring & Design
- Statistics, Calculus I, Calculus II, Calculus III, Differential Equations, Linear Algebra
- Classical Mechanics, E&M, Thermodynamics/Wave Optics/Intro to Quantum Mechanics

## CURRENT PROJECTS

### samvo.dev — Personal Website Portfolio

- Self-taught HTML, CSS, JS with online resources, leasing domain from registrar.
- Refactoring the entire website, modularizing and organizing the codebase with React and NPM.

### Computer Vision Circuit — OpenCV

- Utilized SSH methods and adapted config files to develop a headless Raspberry Pi 4 with a VNC for an outdated OS, documenting it
- Programmed a face-recognition software implementing OpenCV methods, wiring a camera module to the device for IO flow
- Implemented breadboard to flash lights upon facial recognition, event-driven code dynamically changing circuit voltage

## SKILLS

- Code: JavaScript, CSS, HTML, C++, Java, Python
- Tools: Git, WireShark, MongoDB + Compass GUI, VSCode, IntelliJ, Spring Boot MVC + WebFlux, React, Docker

## ACHIEVEMENTS

### Dean's List, President's List — Taft Charter High; Gavilan College          2017 — Current

### AP Scholar Awards with Honors, with Distinction — College Board             2020, 2021

### Panera Dream Project, National Scholarship Competition Winner               2022

### Gavilan College Faculty Association Scholarship — Gavilan College           2024