Govind Pimpale

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EDUCATION

University of California, Los Angeles **Exp. 2024 | GPA: 3.876 (as of April 2022)**

- **Major:** B.S. Computer Science and Engineering
- **Relevant Coursework:** Data Structures, Assembly, Programming Languages, Operating Systems, Signal Processing, Linear Algebra, Discrete Math, Data Management Systems, Computer Network Fundamentals, Compiler Construction

SKILLS

- **Languages:** SQL, Java, C, C++, Python, Typescript, Rust, Python, Bash
- **Technologies:** MySQL, PostgreSQL, Spring Boot, ReactJS, Nginx, Vulkan, AWS, Amazon EC2, Amazon S3, Amazon Route 53, Express.js, WebGL
- **Tools:** Github, Vim, Visual Studio Code, Webpack
- **Operating Systems:** Ubuntu, CentOS, Arch Linux, Windows

WORK EXPERIENCE / PROJECTS

Innexgo (innexgo.com) **August 2018 - Present**

- Cofounded, designed and implemented a web app to monitor student attendance and provide teachers with analytics, leading a team of eight developers.
- Used by ~2000 students and received funding from our school district.
- Tech stack: React / Typescript / Java / MySQL.

Achernar (github.com/pimpale/achernar**)** **June 2019 - Present**

- Designed and implemented from scratch a complex compiler and interpreter for a functional language in Rust.
- Implemented borrow checking and dependent types.

NASA Genelab, Intern **June 2019 - August 2019**

- Created a research proposal with three other students investigating the expression of the genes related to the plant stress response in microgravity and presented to a panel.
- Studied gene expression, DNA sequencing technologies and experimental design.

Dot Com Solutions India, Intern (fileright.com) **June 2018 - August 2018**

- Ported the backend of fileright.com to Spring Boot, redesigned the SQL schema and rewrote the JDBC interface layer, working with frontend developers to develop functions supporting improvements to the UI.

Compugenesis (github.com/pimpale/compugenesis) **August 2018 - May 2019**

- Created maize growth simulation to help farmers and researchers in optimizing crop yield.
- Tech stack: Rust, and Vulkan for graphics display and GPU acceleration.

EXTRACURRICULARS

DevX (Software project incubator club), Project Manager **May 2020 - Present**

- Designed and implemented a web and desktop app to help college and high school students manage time for assignments and homework, leading a team of five designers and developers.
- Tech Stack: React / Typescript / Rust / PostgreSQL.

Bruinspace (CubeSat club), Project Lead **December 2021 - Present**

- Manage a team of 15 students, train new members, and manage the project timeline
- Developed control software (C++) for a CubeSat handling attitude control, telemetry and data collection.
- Wrote embedded code controlling a custom ion thruster.

AWARDS

- Intel International Science and Engineering Fair, 3rd Place, 2019
- Stanford ProCo 2nd Place