

# Akira S Takada

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## Education

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### The College of New Jersey (TCNJ)

Ewing, NJ

*Bachelor of Science in Computer Science, Minor in Mathematics*

*December 2021*

**Cumulative GPA:** 3.763/4.00 *Magna Cum Laude* (**Dean's List:** 7 out of 7 Semesters)

**Organizations:** Phi Beta Kappa (PBK) 2022, Upsilon Pi Epsilon (UPE) 2021

## Skills

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**Programming Language:** C++, Python, C, Java, Ruby, PHP, Javascript

**Technical Skill:** Vim, NeoVim, LaTeX, MATLAB, Sage Math, IntelliJ Environment, Git, GitHub, MySQL, PostgreSQL, HTML/CSS, WebGL

**Operating System:** Windows and Linux (Arch Linux, Ubuntu), Command Line Operations

**General Skill:** Excel scripting, Word, Spreadsheets

**Languages:** English(Native), Japanese(Fluent)

## Work Experience

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### Otsuka Pharmaceutical Companies U.S

Princeton, NJ

*Global Clinical Intelligence Intern*

*June 2021 - December 2021*

Collaborated to implement and debug a web application that automates document generation, decreasing time from topline results to submission, utilizing javascript, node.js, and cloud services

Led, presented, and collaborated with Otsuka Pharmaceutical Companies Japan on implementing an immersive virtual reality experience for onboarding and meetings in Japanese

Designed data analysis script that forms linguistically correct summaries in both English and Japanese to distribute to both American and Japanese branches, utilizing python and natural language processing

### TCNJ IT Lab Staff

Ewing, NJ

*Lab Staff*

*August 2018 - December 2021*

Handled the troubleshooting of PC, Mac and printer issues, installation of PC/Mac, OS installation, and network cable wiring; Advised students and staff with their personal or TCNJ computers

### DE360 Summer Connections/DE360 Aftercare and Enrichment

Englewood, NJ

*Operations, HR Coordinator*

*July 2016 - August 2021*

Performed office functions organizing finances and filing classified documents as well as annual statistic and financial reports; Instructed and led staff on utilizing newly adopted online camp database and mentor training sessions for staff

## Technical Projects

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### Protein Variant Library Design

Ewing, NJ

Research and development of algorithms and computational tools utilizing synthetic biology advances to design combinatorial protein libraries that minimize the cost of synthesis while balancing library size with quality using linear programming in Java and C

Developed online web application on college server that takes user-inputted amino acids and an organism to calculate ideal degenerate codon sequences using HTML, Javascript, PHP, and MySQL

### Bill Database

Ewing, NJ

Developed a website application in a team of 6 that allow a quick search for congressional bills based upon location and keywords using Ruby, Ruby on Rails, and PostgreSQL

### Point Locator

Developed a server plugin for a sandbox video game that converts pinpoints from Google Earth to near perfect coordinates in-game using Java.