

# Sasha Neil Pimento

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## EDUCATION

### University of California, Davis

M.S. in Computer Science, GPA: **3.875/4.0**

### Pune Institute of Computer Technology

B.Eng in Information Technology, GPA: **9.61/10**

Davis, CA

Sept 2022 – March 2025

Pune, India

Aug 2016 – June 2020

## SKILLS

**Technical Languages:** Java, Python, C/C++, C#, .NET, SQL, HTML/CSS, JavaScript, R, React.js, Node.js, SQL, Redis

**Developer Tools:** Git, Docker, VS Code, IntelliJ IDEA, Jupyter Notebook, Microsoft SSMS, Azure, Jenkins, Octopus Deploy

**Business Intelligence Analytic Tools:** Power BI, Power Apps, Tableau

## EXPERIENCE

### Summer Associate - Software Engineer Intern

June 2024 – Aug 2024

Balyasny Asset Management | C#, React, SQL, Swagger, Redis, Redshift

New York, NY

- Engineered advanced research tools using C#, Swagger, React and SQL, including a comprehensive charting tool, improving analysis of financial metrics by 30% and enhancing trading decision accuracy for analysts
- Optimized application performance by integrating Redis cache, reducing response times by 90% and facilitating rapid observation of historical financial data and market trends

### Graduate Research Assistant

May 2023 – June 2024

UC Davis Alzheimer's Disease Research Center | React, Javascript, Firebase, Python

Sacramento, CA

- Spearheading the enhancement of a cutting-edge remote caregiving tool - I-Care, enabling long-distance caregivers to monitor and support activities of individuals with cognitive disabilities, improving caregiver efficiency by 40%
- Conducted design and research of I-Wear, an innovative smartwatch application that uses AI tools to aid memory and daily functioning for older adults with cognitive impairment, achieving a 75% reduction in daily task prompting needs

### Software Developer

Aug 2020 – July 2022

FinIQ Consulting Pvt Limited | Java, C#, .NET, SQL, FIX protocol

Pune, India

- Orchestrated development of an innovative Java post trade email parsing service, providing an efficient alternative for restate, thus reducing overall latency by 50%
- Pioneered onboarding of Goldman Sachs Equity Linked Investments on the FinIQ EQ Connect platform by developing a robust Financial Information Exchange (FIX) Java Service and processing over \$100M daily ELI trade flow

### Project Intern

Aug 2019 – June 2020

BMC Software | Java, Spring Boot, Openshift

Pune, India

- Decoupled the Full Text Search(FTS) component from the Action Request server and deployed it as a robust microservice through Java, Spring Framework and REST API calls, accomplishing a strategic enhancement
- Reduced load on server by 30% by optimizing system resources and improving scalability of the FTS service

## ACADEMIC PROJECTS

### ResUI | ResilientDB, React, Grafana, Prometheus, GraphQL

Sept 2023 – Dec 2023

- Designed and built ResUI, an intuitive full-stack web application user interface for ResilientDB, centralizing navigation, access controls and workflows for new and existing users
- Integrated monitoring dashboard into ResUI via Prometheus and Grafana, crafting customized data visualizations and analytics panels to deliver real-time visibility into performance and statistics of ResilientDB instances
- Executed a top tier project, recognized as one of the top course projects in a batch of 80 students

### Pandemic Impact Explorer | Python, Dash, Plotly, Flask

Jan 2023 – Mar 2023

- Developed an interactive cross-dataset dashboard using Python Dash that seamlessly explores correlations between COVID-19 trends and layoff rates
- Processed +500K data points with <100ms latency, enabling uncovering of actionable insights including predicting regional layoffs based on COVID case trajectories

### StockHub | Java, JSP, MySQL, HTML, CSS, Bootstrap, Spring Boot

June 2018 – Dec 2018

- Led a high-performing team in the development of an advanced online trading platform using HTML, CSS, Java and MySQL, empowering users to efficiently buy and sell stocks while visualizing real-time stock trend analysis and market trend updates

## LEADERSHIP & AWARDS

- Crowned the **UC Davis Grad Slam champion** and awarded the top cash prize of \$5000 for my 3 minute presentation on "Opening Doors for Alzheimer's Disease Care." (Apr 2024)
- Currently serving as the UC Davis MS CS Peer Advisor, advising around 200 students on course selection and academic strategies, and organizing social events for student-faculty engagement. (Apr 2024 - Present)

## PUBLICATIONS

### Interactive-Wear: An intelligent watch application to aid memory for intentions and everyday functioning in older adults with cognitive impairments (February, 2024)

- Presented at the first IEEE conference on Artificial Intelligence x Medicine, Health and Care at Laguna Hills, California, USA