# Dung (Trique) Nguyen

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## EDUCATION

**San Jose State University**                                                                 San Jose, CA
*Bachelor of Science in Software Engineering*                                    *Expected May 2025*
**Coursework** *Enterprise Software Platforms, Software Quality Engineering, Computer Networks, Blockchain & Cryptocurrencies, Information Security, Operating Systems, Database Management Systems*

**Bellevue College**                                                                          Bellevue, WA
*Associate in Sciences in Computer Science*                                           *Jan 2021 - Jun 2022*

## TECHNICAL SKILLS

**Languages**: Java, Python, JavaScript, TypeScript, C/C++, HTML, CSS, SQL, Git, Bash, MIPS (Assembly)
**Frameworks**: React, Vue, Tailwind CSS, Framer Motion, Redux, NextAuth, Next.js, Node.js, Express.js, FastAPI, Flask
**Databases & Cloud:**: PostgreSQL, MySQL, MongoDB, Prisma, Supabase, Docker, Google Cloud Platform
**Others**: Agile/Scrum, DevOps, REST API, GraphQL, gRPC, GitHub, Postman, Chrome API, Discord API

## EXPERIENCE

**Undergraduate Research Assistant**                                                    Aug 2023 – Present
*Charles W. Davidson College of Engineering*                                             *San Jose, CA*
- Collaborate with Dr. Ben Reed to develop a Disconnected Data Distribution network for Android apps applying Delay Tolerant Network, enabling data transfer between disconnected regions via Wi-Fi Direct and gRPC server
- Design and conduct a robust performance testing on gRPC server utilizing Python, allowing to identify and cooperatively resolve 5+ connectivity issues of MySQL and between server and applications

**Development Team Lead**                                                               Aug 2023 – Present
*Association for Computing Machinery at SJSU*                                             *San Jose, CA*
- Lead a team of 15 students to develop club management tools and facilitate technical workshops for 50+ members
- Spearhead and architect an end-to-end system with Next.js, MongoDB, AWS S3, and Google Cloud Platform
- Integrate NextAuth.js with Google OAuth 2.0 provider to streamline the authentication and authorization system

**Founding Software Engineer Intern**                                                 Oct 2022 – Aug 2023
*Forward AI*                                                                                    *Hybrid*
- Collaborated with 2 founders on the core development of an AI-powered job seeking assistant
- Led the design and implementation of the alpha testing product's front end using React and Chrome API
- Processed 500+ file uploads in Flask server and performed automatic matching of 200+ jobs per user daily
- Delivered intuitive authentication process with Auth0 and managed user session information with Redux

## PROJECTS

**Rhythm Moodify** | *React.js, FastAPI, Spotify API, OpenAI, Milvus, Hume AI*                    DevPost
- Designed and developed a song recommendation system using vector database and human expression detection
- Analyzed user expressions and extract 50+ emotions using Hume AI and personalize playlist with Spotify API
- Generated playlist from 300+ songs in FastAPI with self-designed matching system using Milvus and OpenAI

**Bay Area Banking Service** | *Next.js, TypeScript, Redux, Auth.js, PostgreSQL, Prisma, Supabase*   GitHub
- Led a team of 6 students to build a banking software that manages users' finance in Next.js and TypeScript
- Modelled and maintained optimized PostgreSQL schemas ensuring type safety utilizing Prisma, leveraged Supabase for cloud migration, and built REST APIs in Next API Routes to handle HTTP requests for 7+ features

**LeetCode Discord Bot** | *Python, Discord API, GraphQL*                                          GitHub
- Developed a Discord Bot that challenges 1900+ SJSU students to solve daily random LeetCode problems
- Leveraged Discord API to develop 7+ key functionalities in Python that execute and respond to user commands
- Reconstructed algorithms to resolve soft collision and asynchronous data handling for 2000+ problems

## ACTIVITIES & AWARDS

**Best Data Science Hack** | *Major League Hacking - Hackrithmitic 2*                         Demo/DevPost
**Top 10 Award Hack** | *Northern California Hackathons - Planet Unity Spring 2023*           Demo/DevPost