

# Johnny Luong

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🏠 [Personal Website](#)  
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## Professional Experience

### Lead Software Developer @ BluePath Solutions

December 2022 – Present // Los Angeles, CA

- Increased efficiency by 99.9% by automating the creation of 960 surveys with a Python script, resulting in a time savings of 4795 minutes (or approximately 80 hours)
- Led the Product Development Team in developing high-quality software products across the company, aligning strategic goals and objectives with overall business objectives
- Implemented standard operating procedures for digital product development to drive consistency and efficiency across teams and projects

### Software Developer @ BluePath Solutions

April 2021 – December 2022 // Los Angeles, CA

- Decreased analysis run time by 95% (~43 seconds) by refactoring an Excel model using Javascript
- Reduced project delivery time by 28% by applying iterative development strategies and introducing collaboration across developers, designers, and researchers
- Increased prototyping speed by 50% by learning and adopting Next.js, Mikro ORM, and PostgreSQL to accelerate core feature development

### Software Engineer @ Circle (Project Team)

July – December 2020 // Remote

- Engineered a cross platform, full-stack mobile application (Android & iOS) using Dart, Flutter, and Firebase
- Led a team of 4 engineers to develop the MVP by managing project organization and code reviews
- Established key technology and design decisions by analyzing the tradeoffs between alternatives
- Improved user experience by integrating user feedback collected through A/B testing different iterations

### Software Engineer Intern @ Quantum Design

Summer 2020 // San Diego, CA

- Reduced undesirable output by 50% by parsing data and removing noisy data using Python scripting
- Produced data collection by generating 2000+ theoretical samples using the adapted simulation model
- Studied the core logic of spectra analysis by reviewing 7000+ lines of code and extracting key information
- Delivered maintainable source code with 100% test coverage (~4000 lines) by integrating Python unit tests

## Full Stack Projects

### Modern Tech Blog (Next.js, React, Tailwind CSS, GraphQL, GraphCMS)

- Built a fast-loading blog template by learning Next.js for server-side rendering
- Leveraged Headless Content Management System architecture to build core features
- Learned GraphQL concepts to expand knowledge of API design

### Parley App (Flutter, Flask, Postgres, REST API)

- Developed a mobile application with Flutter, allowing users to post content and interact with other users
- Learned modern design principles to build an API using Flask to wrap a sentiment analysis model
- Configured a Postgres SQL database using Supabase to store user information and content

## Education

### University of California, San Diego

2017 – 2021

- Bachelor of Science in Mathematics, emphasis in Computer Science
- Coursework: Advanced Data Structures, Object Oriented Design, Algorithms Analysis, Software Engineering

## Languages & Technologies

- Python, JavaScript, TypeScript, HTML, CSS, Java, Dart, GraphQL, C/C++
- Flutter, Next.js, React.js, Node.js, Tailwind CSS, Express, Flask, Prisma, MySQL, Docker, PostgreSQL
- Full Stack Development, Relational Databases, Data Structures, Algorithms, Object Oriented Design