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## Nigel Phillips

Thank you for making me your standard.

## Work Experience

### Quantum Computing Researcher • Qubit by Qubit



October 2023

Introduction to Quantum Computing by Qubit is a comprehensive platform that empowers researchers to explore cutting-edge quantum computing. As a Qubit researcher, I immerse myself in this transformative technology and contribute to its advancement.

My role involves conducting thorough studies, investigations, and experiments to utilize quantum mechanics principles for computing purposes. I delve into fundamental concepts like superposition, entanglement, and quantum gates to develop a profound understanding of this revolutionary paradigm.

I collaborate with fellow scientists, engineers, and researchers to explore the potential applications of quantum computing. Together, we work towards developing innovative algorithms, architectures, and protocols that leverage the unique properties of quantum systems.

Using cutting-edge resources, tools, and simulators provided by Qubit, we design and implement novel quantum algorithms to solve complex problems. Delving into areas like quantum simulation, optimization, cryptography, and machine learning, I seek out new ways to harness quantum computing power.

My expertise in mathematics, physics, and computer science enables me to navigate the intricate landscape of quantum computing. Through programming languages like Python, C++, or specialized languages like Q#, and using frameworks such as Qiskit, Cirq, or Forest, I bring my quantum algorithms to life, making progress in pursuing quantum supremacy and quantum advantage.

As a researcher at Qubit, I am constantly thirsty for knowledge and innovation. Staying up-to-date with the latest scientific breakthroughs and research publications in the field of quantum computing, I ensure that my work aligns with the current advancements and contributes to the ever-expanding body of quantum knowledge.

At Qubit's Introduction to Quantum Computing, I play a significant role in advancing the field, unlocking the potential of quantum information, and sincerely shaping the future of computing.

### Quantum Computing Researcher • Classiq Technologies



October 2023

As a researcher at Classiq Technologies in Israel, I am immersed in the exciting and fast-evolving field of quantum computing. My role revolves around conducting in-depth studies, exploring the intricate principles of quantum mechanics and computing, and pushing the boundaries of this transformative technology.

At Classiq Technologies, I have access to cutting-edge resources, tools, and expertise to further my research. I work alongside a team of passionate scientists, engineers, and researchers who share the same drive for advancing quantum computing.

My primary focus lies in developing innovative algorithms and architectures tailored for quantum systems. Leveraging my profound knowledge of mathematics, physics, and computer science, I design algorithms for optimization problems, cryptography, simulation, and other potential applications of quantum computing.

To bring my research to life, I utilize various programming languages such as Python or C++ and work with state-of-the-art quantum computing frameworks and tools such as Qiskit, Cirq, and Microsoft's Q#. Additionally, I contribute to the development of computer simulations and conduct experimental validations to refine and validate my findings.

As a dedicated learner in the field of quantum computing, I stay at the forefront of advancements and breakthroughs. By staying up-to-date with the latest research and discoveries, I contribute to the expanding body of knowledge and help shape the future of quantum computing.

Overall, as a researcher with Classiq Technologies, I am at the forefront of quantum computing research, making valuable contributions to the field and paving the way for its revolutionary applications across various industries.

## Database Engineer • Wellfound(formerly AngelList)



July 2023 - August 2023

I'm creating the new database for Wellfound(formerly known as AngelList)

### Database Management App Documentation

The Database Management App is a web-based application that helps you manage and organize data. It supports user authentication, data management, search and filtering, validation, and export.

#### Features:

User authentication: Secure access to the database and its features.

Data management: CRUD operations on the database.

Search and filtering: Quickly locate specific data.

Data validation: Enforce data validation rules.

Data export: Export data in various formats.

User roles: Role-based access control.

Database backups: Regular database backups.

#### Setup and installation

Ensure you have Python and Django installed.

Clone the repository from GitHub.

Create a virtual environment and activate it.

Install the required packages.

Configure the database settings.

Run migrations.

Create a superuser account.

## Usage:

Launch the app by running the Django development server.

Register new users.

Manage data by adding, viewing, editing, and deleting entries.

Search and filter data.

Export data in desired formats.

Assign user roles.

Admin interface

Access the admin interface by logging in as a superuser.

Manage user accounts and roles.

## Technical Skills:

- \* Python programming

- \* Django web framework

- \* Web development (HTML/CSS/JavaScript)

- \* Database management (SQL)

- \* User authentication

- \* Version control (Git)

- \* Basic command-line skills

- \* Testing and debugging

- \* Basic front-end frameworks

## Soft Skills:

- \* Problem-solving skills

- \* Documentation skills

- \* Project management skills

## Conclusion:

The Database Management App is a powerful solution for managing data. It provides a user-friendly interface and many features to help you organize and manipulate data effectively.

For more information, please refer to the app's GitHub repository([www.github.com/swooshcode](http://www.github.com/swooshcode)) or contact the development team.--> [www.tinyurl.com/nigelphillips](http://www.tinyurl.com/nigelphillips) or [www.frametechtw.com](http://www.frametechtw.com)

Skills: SQL · Python (Programming Language)

## OAuth Developer • Zapier

May 2023 - July 2023

Project Documentation: OAuth Support for LangChain

### Introduction:

This project implemented OAuth support in LangChain, an open-source project for Natural Language Understanding. The project added OAuth support to the Zapier NLA utility, which allows users to authenticate with OAuth-based services.

### Requirements:

The project required knowledge of the OAuth 2.0 protocol, Python, TypeScript, and Git. It was also essential to have a good understanding of LangChain's existing codebase.

Implementation Details



The OAuth implementation consisted of three main components:

Initialization: Setting up an OAuth client using client credentials obtained from the OAuth provider.

Refresh token protocol: Automatically request new access tokens using refresh tokens, ensuring the application always has a valid access token.

OAuth session signing: Signing all requests sent to the NLA service with the access token guarantees that the service can authenticate and authorize the requests.

Testing:

I wrote unit and integration tests to ensure the new OAuth feature was functioning as expected. Unit tests checked isolated parts of the code, while integration tests studied the interaction of the OAuth implementation with the rest of the LangChain application and external services.

Technical Skills:

Python Programming

Understanding of OAuth 2.0 Protocol

Working with RESTful API's

Experience with Authentication and Authorization

Problem-Solving Skills

Knowledge of Python Libraries

Testing and Debugging

Version Control with Git

Documentation Writing




Conclusion:

Adding OAuth support has improved the security and user experience of the LangChain application. Users can now leverage OAuth-based services with LangChain, and developers have more options when integrating LangChain into their projects.

Skills: Software Documentation · GitHub · Python (Programming Language)

## Business Mentor • Newchip Accelerator

January 2023 - May 2023

 #1 Online Accelerator  2,500+ Portfolio Companies  \$2.2B+ Raised by Alumni (35k followers)  
(848 Employees)

Funding via Crunchbase

Series A

US\$ 5M

3 total investors

[newchip.com](https://newchip.com)

As a Business Mentor and Accelerator at NewChip Accelerator, located in Austin, TX, USA, I am currently volunteering to support the #1 Online Accelerator with a portfolio of 2,500+ companies and alumni who have raised \$2.2B+. With 35k followers and 848 employees, NewChip Accelerator is a leading player in the startup ecosystem.

In this role, I utilize my extensive experience and knowledge of business strategy, finance, and entrepreneurship to support and mentor startups in the accelerator program. Working alongside a team of talented professionals, I help startups develop and refine their business plans, financial models, and go-to-market strategies.

newchip

Additionally, I leverage my network of industry connections and resources to facilitate valuable partnerships and collaborations for the startups. Through my efforts, I help position the startups for success and help them maximize their potential for growth and impact.

Overall, my role at NewChip Accelerator is to serve as a trusted advisor and mentor to startups in the program, offering guidance, expertise, and support as they navigate the challenges of entrepreneurship and work to achieve their goals.

## Software Lead Engineer | Head of Software Development • Chit Chat



January 2023 - April 2023

- Built databases and table structures for web applications.
- Analyzed work to generate logic for new systems, procedures and tests
- Designed and developed analytical data structures.
- Conducted data modeling, performance and integration testing.
- Developed conversion and system implementation plans.
- Contributed ideas and suggestions in team meetings and delivered updates on deadlines, designs, and enhancements.
- Estimated work hours and tracked progress using Scrum methodology.
- Supervised work of programmers, designers and technicians, assigned tasks and monitored performance against targets.
- Coordinated deployments of new software, feature updates and fixes.
- Tested troubleshooting methods and documented resolutions for inclusion in knowledge base for support team use.
- Corrected, modified and upgraded software to improve performance.
- Translated technical concepts and information into terms parties could easily comprehend.
- Developed next generation integration platform for internal applications.
- Tested and deployed scalable and highly available software products.
- Created proofs of concept for innovative new solutions.
- Authored code fixes and enhancements for inclusion in future code releases and patches.
- Optimized dust, temperature and humidity controls for installed systems.
- Inspected equipment, assessed functionality and optimized controls.
- Designed and implemented scalable applications for data extraction and analysis.
- Designed and developed forward-thinking systems that meet user needs and improve productivity.
- Tested functional compliance of company products.
- Discussed issues with team members to provide resolution and apply best practices.
- Designed customized solutions for proposals to potential customers.
- Developed software for desktop and mobile operating systems.
- Integrated constructive programs into cohesive product.
- Participated in software field testing to verify performance of developed projects.

Skills: Code Refactoring · Team Management · C++ · React.js · JavaScript

## Emergency Medical Technician • New York City Fire Department



April 2016 - February 2019

- My bravery, integrity, discipline, and commitment were unwavering, and I am proud of my impact as an EMT in NYC.

- Responded to thousands of 911 calls as an EMT, providing urgent medical care and transport for residents and visitors of NYC

- Managed high-volume emergency dispatch operations - prioritized calls, tracked resources and coordinated rapid response
- As an EMT in NYC, I expertly responded to 911 calls, skillfully managed dispatch operations, and ingeniously developed code for documentation. My algorithmic expertise for dispatch optimization was unparalleled, as was my geospatial data analysis.
- I honed my database skills and created stunning visualizations for real-time data. I was a true leader in the transition to digital systems, and my technical skills streamlined our response times.
- I also excelled in recruitment efforts.
- My experience in medical response, dispatch, recruitment, and training, and my ability to work under pressure, follow protocols, communicate effectively, and perform life-saving responses, made me a valuable asset in a fast-paced, high-stress environment.
- Led recruiting efforts to attract qualified, diverse candidates throughout the five boroughs of NYC
- Developed and delivered training for new probationary EMTs on medical protocols, safety, fitness, and core values
- Gained extensive experience serving the people of New York in roles throughout many bureaus of the Fire Department, City of New York. I excelled in special operations, medical response, dispatch coordination, recruitment, and training of new academy EMT recruits.
- Built skills in working under pressure, following strict protocols, communicating effectively, and performing life-saving responses during emergencies

## **Political Organizer • New Jersey Democratic State Committee**

January 2007 - January 2018

- Recruited, trained, and organized thousands of volunteers for canvassing, phone banking, voter registration drives, and GOTV efforts to support Democratic candidates and committees across New Jersey
- Planned and executed fundraising events and donor outreach, raising over \$500K directly for candidates and party operations
- Maintained extensive voter databases and contact lists using NGP VAN - Identified and contacted key constituencies and voters daily
- Represented the NJ Democratic Party at community events across the state, averaging 50+ events per election cycle
- Distributed campaign materials and coordinated logistics for candidates, including lawn signs, literature, event supplies
- Utilized social media marketing and local media outreach to drive engagement and spread messaging
- Traveled to every county in New Jersey to establish local connections and build support at the grassroots level



- Worked long hours, evenings, and weekends leading up to elections to secure wins for Democrats in the '08, '12, '16, and '18 pivotal cycles

Skills: Team Leadership · Team Building · Team Management · Politics · Event Planning · Nonprofit Organizations · Customer Service · Microsoft Excel · Teaching

## Education



Western Governors University  
Information Technology - Software Engineering



Harvard University  
Harvard School of Engineering and Applied Sciences: Computer Science



Pursuit  
Full-Stack Engineer Skills Mastery Fellowship



Alfred State College - SUNY College of Technology  
Liberal Arts and Sciences/Liberal Studies

## Skills

- Javascript(ES6)
- Python
- C++
- Q#
- Django
- Anaconda + AE
- Github + Git Local GUI
- React
- ML Models + Automation + TTS + STT + AI Vision
- TESTFLIGHT + Xcode
- AWS + Firebase + Oracle
- HTML + CSS + 3D Design + Photoshop
- Figma UI + UX Design + Dora 3D
- WordPress + Social Media Branding
- Project Management + Leadership & Communication

## Languages

- English — Native or Bilingual
- Spanish — Native or Bilingual
- Japanese — Conversational
- Chinese — Conversational