

# Chaudhary Guroosh Singh

## Software Engineer

Software engineer with 6 years of experience in Python, specializing in backend development, APIs, and scalable system design.

✉ guroosh7777@gmail.com

☎ +91 88827 45150

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### Education

#### Trinity College Dublin

M.Sc. - Computer Science

📍 Dublin, Ireland 2019 - 2020

#### Indraprastha Institute Of Information Technology, Delhi

B.Tech - Computer Science & Engineering

📍 New Delhi, India 2014 - 2018

### Technical Skills

Proficient Skills

**Python** **Django** **Rest APIs**

**Data Structures & Algorithms** **Git/Github**

**Object Oriented Design** **Test Automation**

**SQL** **DynamoDB**

Web & Software Development Tools

**JavaScript** **Svelte JS** **HTML**

**Tailwind CSS** **Flask** **MongoDB**

**Figma (UI Design)**

DevOps Tools & Cloud Platforms

**Linux** **Kafka** **Docker**

**AWS** **Azure DevOps**

**Jenkins (CI)** **Kubernetes (CD)**

Monitoring & Supporting Tools

**Elasticsearch** **Kibana** **Grafana**

**Postman** **PyCharm** **VS Code**

### Certifications

**AWS Certified Developer - Associate** (AWS Training and Certification) - valid till 2026

**MySQL Scaling and Optimizations** (Percona training)

**MySQL Operations and Troubleshooting** (Percona training)

### Languages

English - Fluent

Hindi - Native

### Hobbies

Swimming

Chess

Tennis

### Professional Experience

#### Cognida.Ai

Senior Software Engineer

📍 Hyderabad, India

Nov 2024 - Present

**Python** **FastAPI** **Azure DevOps** **LLM + RAG** **Vector Indexing**

- I work with Generative AI technologies to provide practical AI solutions for external clients.
- Integrated autonomous AI agents, allowing intelligent task execution and decision-making.

#### Demonware (Activision)

Software Developer

📍 Dublin, Ireland

Jan 2021 - Sept 2024

**Python** **MySQL** **Automated Testing** **Environment Release Management**

**Rest APIs** **Load Testing** **System Monitoring**

- I worked as a Python Backend Developer, managing authentication, user login, and account storage for cross-platform gaming on Xbox, PlayStation, and Windows. I handled millions of daily active-user accounts to ensure a seamless gaming experience.
- My daily activities were Developing, Testing, Deploying and Monitoring these services, as well as providing live support to our studio partners within Activision.

#### Scry AI

Junior Data Scientist

📍 Gurugram, India

June 2018 - July 2019

**Java** **Spark** **HBase** **Web Data Parsing**

- My work consisted of working on data parsing using web crawlers and 3rd party APIs, data cleanup, management and storage. This data would be used for data analysis and insights to generate meaningful conclusions.

### Academic Projects

#### Application For City Disaster Management

[github.com/...Android](#)

**Android** **Test-Driven Development** **.NET** **AWS - EC2** **Google Maps API**

- Worked in a team of 5 following Extreme programming (XP) approach with Pair Programming and Test-Driven Development. Worked on AWS EC2 service for production deployment.
- The application used 3rd party APIs, including Google Maps for evacuation routes, Firebase for real time Push notifications and public Dublin Bus API for live schedule.

#### Optimal Path Finding Using Heuristic Algorithms

[github.com/...PathFinding](#)

**Python** **A\* algorithm** **Metaheuristic Optimization**

- Led a team of 4 where we implemented different techniques: A-Star Algorithm, Genetic Algorithm, and Reinforcement Learning for finding optimal paths in a Grid World environment.
- We used different Heuristics functions to find the best solution for the problem while being computationally and timely efficient.

#### B.Tech Project - Spatial Scan Statistics

[github.com/...SpatialScan](#)

**Java** **Parallel Programming** **Spatial Indexing**

- Worked in a team of 2 to design an algorithm for scanning and analyzing 2D data, optimized with Java-based parallel architectures like Habanero Java, JOMP, and Fork/Join.
- Data was indexed using a Spatial Grid File, dividing the 2D space based on density distribution. Indexed data was stored in buckets, enabling optimal coordinate-based searches by fetching only relevant buckets.

### Accomplishments

- Scored 800/1000 in the AWS Certified Developer - Associate exam, surpassing the 720 passing requirement.
- Led a project at Demonware that increased visibility into user journeys via audit logs, enhancing debugging and team productivity.