


# HATIM ZAHID

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 [HatimZ Portfolio](#)

 [HatimZ Website](#)

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 Ontario, Canada

- Engineering Degree from An **ABET Accredited Undergraduate Program** (American Board of Engineering and Technology).
- **2+ Year experience** in implementing backend servers and full-stack solutions using cutting edge tech stack.
- **IELTS 8 band** and Technology **Writer/Blogger** on **Medium** at [medium.com/hatim.zahid](https://medium.com/hatim.zahid).
- **Open-Source** Contributor - contributed code to multiple open-source repositories on GitHub like pandas, scrapy etc.

## Skills

- **Backend** : Python, Django, Django Rest Framework, Restful API's, Node.js
- **Frontend** : Vue.js ,HTML,CSS, jQuery , bootstrap, JavaScript.
- **Database**: PostgreSQL, MongoDB, MySQL, AWS Redshift, AWS RDS, Database Modeling and Query optimization.
- **Linux** : Web Server Deployment, Database Server Configuration, Basic Bash Scripting.
- **Testing** : Postman, Test Driven Development, Unit Tests, JIRA.
- **Cloud and Architecture** : AWS EC2, S3 Storage buckets, Simple Email Service, IAM, Redshift , Docker, CloudFormation.

## Work Experience

**VST Inc | Houston, Texas, USA**

**August 2023 – Present**

**Software Engineer | Full Stack Developer | Remote Job**

- Developing a Web Application with Django for managing insurance claims with reporting, analytics, and permissions.
  - Leveraged Mongo DB for database and Vue.js together with bootstrap to build a professional dashboard.
    1. User authentication, object, and feature level permissions with middleware.
    2. Bootstrap forms and complex input validation with Vue.js.
    3. Custom pagination and filtering for improving UI and increasing site speed by 60%.
    4. Implemented pipelines in MongoDB for creating charts, reports, and tables to improve UX by 50%.

**Social Pie Pvt Limited | Karachi, Pakistan**

**March 2023 – August 2023**

**Software Engineer | Backend Developer**

- Lead Backend Developer on a Django Web application, a Medical/Mental health Consulting platform.
  - Leveraged Django Rest Framework and developed RESTful API's, shipping features timely with 100% client satisfaction.
  - Utilized Class based Views with Serializers and Developed the following subsystems:
    1. User authentication with JSON Web Tokens and OTP messages.
    2. Custom exception handler classes for providing useful exception information and relevant status codes.
    3. Custom HTTP Response objects for providing specific success and error messages.
    4. Custom Permission classes implement object level and view level restrictions.
    5. Custom Filtering Classes to implement specific search and Boolean filters on data.
    6. PostgreSQL query optimization using custom query profiling, made complex query **3 times faster** using *select-related, prefetch-related, only, defer, values, value-list* concepts in Django.
    7. Asynchronous Tasks Management using Celery, Redis and Django to decrease web server latency. Documented in my blog at [Async Task Scheduler in Django](#).
    8. Following TTD pattern and writing Unit Tests for APIs, Serializers and Database with PyTest.

- Modelling Database, ER Diagrams, and coding to optimize read performance as application has high read dependency.
- Configured AWS S3 buckets for user file storage, AWS Simple Email Service for transactional emails.
- Deployed NGINX proxy server, GUNICORN Web server, PostgreSQL database server on AWS EC2 instance.

## QuickStart Inc | Karachi, Pakistan

Nov 2021 – March 2023

*"Based out of Austin, Texas, QuickStart is one of the leading IT skills training providers in the industry..." - CrunchBase.*

### Junior Software Engineer

- Developing and Maintaining **ETL pipelines** and **Automation** scripts to perform data migrations.
  - Transferred Zoom attendance data to Google drive leveraging Zoom OAuth2.0 Server to Server. Data is formatted by **pandas** and written in Google Sheets. Helped internal teams to automate attendance of hundreds of Students.
  - Developed a Flask API, which is an endpoint for Zoom Webhook. Automated Attendance Reports through Webhooks.
- Applauded for my efforts in creating an **in-house data Web Application** which increased potential leads by 60%.
- Coded an **AWS Client** in Python which manages files in Amazon S3 bucket which increased code reusability.
- Developing APIs in Python using the **REST Framework**. Used by Front-end Team to implement new features in the QuickStart Website used by millions of users.

## Education

### Seneca College | Ontario, Canada.

May 2023 - Present

Graduate Certificate in Global Business Management.

### Bilkent University | Ankara, Turkey

Sep 2016 - Jun 2021

B.Sc. in Electrical and Electronics Engineering

Degree accredited by American Accreditation Board for Engineering and Technology (ABET).

Bilkent University is Ranked No.1 private university in Turkey. Awarded 100% merit -scholarship for bachelor's study.

#### Achievements:

- Best Research Design Award | Communications and Design Bilkent.
- 100 % Merit Scholarship for Bachelors.

### Beaconhouse College | Karachi, Pakistan.

Jun 2014 -Aug 2016

Cambridge International Advanced levels.

#### Achievements:

- Gold Medalist achieved exemplary A levels Grades. Math A, Physics A\*, Chemistry A
- Awarded 100% merit scholarship for A 'levels studies.

## Projects

### Portfolio Website Using React and JavaScript | Personal Project | [Online Website](#)

Aug 2022

- Designed and developed a fully responsive static professional portfolio website using React.js, HTML and CSS.

### An HR Applicant Tracking Web Application using Django | Personal Project | [GitHub](#)

Jun 2022

- Developed backend of a HR software that takes input from and Resume from the applicant and stores in **PostgreSQL** DB.

### Data Analytics Using Statistical Tests and Plots with R | Bilkent University | [GitHub](#)

Feb 2019

- Performed exploratory data analysis and tests such as Chi-Squared Tests, F-Tests to find factors affecting attendance.