

MOHAMED ELKHOLY

BDS, ORAL AND DENTAL SURGERY



CONTACT



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www.pymodel.com

PROFILE

Dentist with hospital, oral and maxillofacial surgery, and private-practice experience, currently completing an M.S. in Applied Artificial Intelligence at Eastern University. Combines clinical experience with hands-on work in AI and software development, with an interest in applying technology to improve patient care, advance digital dentistry, and contribute to the ethical direction of emerging clinical technologies.



EDUCATION

Master of Science in Applied Artificial Intelligence

2025-April '27

School of Mathematics and Computational Sciences
Eastern University Pennsylvania, USA

Bachelor of Oral and Dental Surgery

2013-2019

Faculty Of Oral & Dental Medicine
Cairo University Cairo, Egypt



WORK EXPERIENCE

General Dentist / Oral & Maxillofacial Surgery Department

2022-2024

El Mounira General Hospital — Cairo, Egypt

- Provided comprehensive dental assessment, diagnosis, treatment, and follow-up care in a hospital setting.
- Worked closely with the Oral and Maxillofacial Surgery Department in evaluating and managing oral and maxillofacial conditions.
- Managed dental emergencies, acute pain and infection, surgical cases, and medically complex patients.
- Collaborated with dentists, oral and maxillofacial surgeons, nursing staff, and other healthcare professionals.
- Educated patients on treatment options, postoperative care, oral hygiene, and disease prevention.

General Dentist — Private Practice

2021-2023

Private Dental Clinic — Cairo/Giza, Egypt

- Provided comprehensive general dental care in a private clinical setting.
- Performed examinations, treatment planning, restorative and preventive care, and routine dental procedures.
- Counseled patients on oral hygiene, prevention, and long-term treatment needs.
- Developed strong patient communication and practice-management skills.

General Dentist

2021-2022

Al-Hurghada Hospital — Hurghada, Egypt

- Provided general dental care, including examination, diagnosis, treatment planning, restorative procedures, and emergency management.
- Treated routine and urgent dental conditions in a hospital setting.
- Coordinated patient care with other healthcare professionals as needed.

Dental Intern

2020-2021

Faculty of Dentistry, Cairo Univ / Affiliated Hospitals — Cairo, Egypt

- Completed a rotating dental internship following graduation from Cairo University.
- Received supervised clinical training in restorative dentistry, endodontics, prosthodontics, periodontics, pediatric dentistry, oral surgery, and oral medicine.
- Assessed patients, developed treatment plans, and performed clinical procedures under supervision.

IT Support and Administrator

2022-Present

Technology Matrix Group, USA

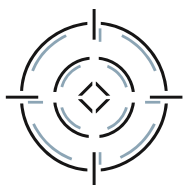
- Manage hybrid IT infrastructure across on-premise and cloud systems, improving reliability and data access.
- Oversee software deployment, updates, and security compliance across the organization.
- Automate recurring IT support workflows to reduce resolution time and improve efficiency.
- Administer Linux servers and Docker-based internal tools.

Founder and Developer

2024-Present

Pymodel Inc., USA

- Design and build production software and AI systems from architecture through deployment.
- Develop full commerce ecosystems spanning backend services, admin dashboard, customer web and mobile apps, menus, ordering, and checkout workflows.
- Build APIs, data models, integrations, authentication, and operational tooling with a focus on reliability and maintainability.
- Develop AI applications and automation systems integrating language models, retrieval, tools, and business workflows.



CLINICAL
COMPETENCIES

Molar & Premolar Endodontics · Implant Placement · Minor Oral Surgery · Impacted Tooth Surgery · Suturing · Medically Compromised Patient Care · Digital Intraoral Scanning · CAD/CAM Crown & Endocrown Design · Clinical Photography

Collaborative Experience: Intermaxillary Fixation · Jaw Plating & Fixation · Major Oral & Maxillofacial Surgery · Major Reconstructive Procedures · Trauma & Accident Reconstruction



ADDITIONAL ACHIEVEMENTS

Nanodegree Program: Future AWS AI Scientist

2025

Certificate Of Nanodegree Program Completion
Udacity x Accenture

Integrated National Board Dental Examination (INBDE)

2023

Joint Commission on National Dental Examinations
Pass - 1st Attempt

CERTIFICATIONS

Machine Learning Foundations

AWS Educate

2025 Challenge Completion

AWS AI & ML Scholars

Claude Code in Action

Anthropic

Introduction to Generative AI

AWS Educate



SELECTED SOFTWARE & AI PROJECTS

Pythinker Code AI Engineering Agent

www.code.pythinker.com

Built a cross-platform AI coding agent with autonomous repository workflows, multi-agent execution, editor integration, MCP tools, and support for multiple AI providers.

Niblet Designer UI AI Design Reference Platform

www.niblet.com

Built a hosted UI-reference platform and MCP service that gives AI coding agents access to more than 65,000 real application screens and structured design references.

Pythinker Bot Always-On AI Agent Platform

www.pymodel.com

Built a local-first multi-agent platform where autonomous bots operate in persistent sandboxes with browser, filesystem, terminal, and development tools to execute, coordinate, and learn complex multi-step workflows.