Ojas Patel
Software Engineer
ojas.dilip.patel@gmail.com | **Newark, NJ** | **(609)703-5124**
github.com/opatel0 | **linkedin.com/in/ojaspatel0/**

I am a back-end software engineer with 5 years of experience working on robotic and embedded systems. In former roles, I delivered products that exceeded customers' expectations and brought unprecedented alignment to my design teams by meticulously mapping test cases, scripts, and results back to real world problems. I bring this focus on quality to my development work, where I code great user experiences and build scalable tools that reliably deliver high quality software.

SKILLS

Languages: Python, C++, JavaScript, HTML, CSS, SQL, MongoDB, Typescript, EJS, DTL, C#/.NET
Libraries and Frameworks: React, Express, Mongoose, Django, Bootstrap, Tailwind
Databases and other: PostgreSQL, MongoDB, RESTful APIs, AWS, GCP

RELEVANT EXPERIENCE

Test Lab Technician, Wazer, Aug 2023 - Nov 2023, Yonkers NY
- Wrote C++ Arduino sketches to stress test and lifetime test waterjet cutter products.
- Wrote DASYLab scripts to log .csv formatted test data over 300+ hours of machine runtime from 8 channel DAQ reading from pressure and flow rate sensors.
- Enabled targeted design revisions by writing MATLAB scripts to process, visualize, and report pressure and flow rate data representing the product lifetime.
- Implemented system to monitor machines remotely during 24/7 test runs.

QA Engineer, Castle Hill Gaming, Sep 2022 - Jan 2023, Charlottesville VA
- Improved release testing turnaround time by 100% (1 -> 2 games per day) by rewriting the suite of tests for releasing new game software.
- Triaged, documented, and tracked dozens of bugs in JIRA.
- Revised AWS file system organization to streamline collaborative processes.
- Used a serial sniffer to test and advance implementation of GAT, an industry standard software authentication tool, opening our products up to new markets.

Automation Test Engineer, Opentrons, February 2020 - June 2022, Brooklyn NY
- Wrote and owned continuous improvement of Python test scripts and device drivers for several hardware and software robotic liquid handling product initiatives, making use of threading, plotly, opencv, and other Python libraries to support CI through automated testing.
- Supported production BOM versioning in Duro through implementation of test script versioning in the test engineering team's Github repo, leading to stronger traceability.

Technical Support Manager, Opentrons, Aug 2018 - Feb 2020, Brooklyn NY
- Helped improve the company's primary KPI (customer activation) from ~30% to > 85% through customer onboarding, issue triage, and world class customer support.

- Reduced our average response time from 5+ business days to < 1 hour and our case resolution rate from < 5% to ~90% for ~400 cases per month by tracking key performance metrics in Salesforce.
- Managed and developed strategy for implementation of COVID-19 testing systems across four hospitals in Spain, a major milestone in our company's skyrocketing success during the COVID-19 pandemic.

TECHNICAL PROJECTS
Personal Portfolio - HTML, CSS, JavaScript
Responsive portfolio website to showcase professional accomplishments.
- Implemented highly responsive design in vanilla CSS.
- Built browser game using DOM manipulation.

Rec'd - MEN Stack - Mongoose, Express, Node
Videogame recommendation and search engine.
- Implemented mobygames API backend, serving up data for over 160,000 games.
- Currently in use to assist in mobygames contributor operations, such as quality testing.

PiTCRU - Django, Python, PostgreSQL
Website for researching vehicle data.
- PostgreSQL and API-Ninjas backend that provides data for 30,000+ vehicles from 1985-2023 and firsthand experience from real owners in the comment section.
- Wrote SQL queries for testing backend revisions.

React App - MERN Stack - Mongoose, Express, React, Node
Website for journaling.
- A fully featured journaling tool fit for the modern world.

EDUCATION
General Assembly, Software Engineering Immersive, Graduated 2024
400+ hour software engineering program focused on product development fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration.

Georgetown University, M.A. Communication, Culture, and Technology, Graduated 2018
CCT is an innovative M.A. program focused on teaching interdisciplinary research methods and fundamentals of technology alongside a broad survey of technical course work.

Rowan University, B.A. English, Graduated 2014
Completed capstone research project on the Situationist International organization's movement in 1970s France. Graduated with a minor in education and concentration in creative writing.