

# SHUBHAM PATIL

San Jose, CA, USA, 95110 | +1 (669)-252-4911 | [patil.pshubham@gmail.com](mailto:patil.pshubham@gmail.com) | [LinkedIn](#) | [Scholar](#) | [Github](#)

## EDUCATION

### Master of Science, Computer Science

GPA - 3.6/4.0

Westcliff University, San Francisco, CA

Expected Dec 2025

Relevant Coursework: Machine Learning, Software Engineering, Data Science, Information Security

### Bachelors of Technology, Electrical Engineering

GPA - 3.8/4.0

Savitribai Phule Pune University, MH, India

May 2020

Relevant Coursework: Data Engineering, Web Development, Artificial Intelligence, Cloud Computing

## WORK EXPERIENCE

### Software Engineer

June 2020 – May 2023

Searce Inc.

Pune, Maharashtra

- Developed a Node.js-based learning platform for AirAsia using MySQL and Firebase, improving module completion rates by 30% through gamification and video-based engagement (25% boost).
- Designed responsive interfaces for Dainik Bhaskar and ICICI Lombard with HTML, CSS, JavaScript, Bootstrap, and jQuery, reducing bounce rates by 20% and improving user retention by 15%.
- Engineered a low-latency live streaming prototypes and solution for BYJU'S on their proprietary platform using Red5 Pro (WebRTC) and Next.js, reducing latency by 40% and doubling viewership capacity.
- Architected GCP storage solutions for Aeye with a tool to capture, store, and label autonomous vehicle videos; built an ETL pipeline using Cloud Functions, TensorFlow, and BigQuery for automation.
- Orchestrated a document search engine for Tata Steel using Django, Angular, Cloud Search API, and Vertex AI. Integrated analytics dashboards with App Script, Data Studio, improving data retrieval by 50%.
- Streamlined ETL pipelines for ONDC using Python, Cloud Functions, and BigQuery, transforming transactional data into real-time dashboards with Chart.js and D3.js for digital commerce analytics.

## RESEARCH EXPERIENCE

- Copyright - Synchronization of Devices using IR Technologies (Copyright Office Government of India) – L73523
- Crowd Monitoring System using Artificial Neural Networks – [Paper Link](#)
- Application to Monitor and Manage People In Crowded Places Using Neural Networks – [Paper Link](#)

## PROJECT EXPERIENCE

### SecureDNP3 - [Project Link](#)

Feb 2025

- Implemented a machine learning-based IDS for DNP3 protocol threats using Scikit-learn, XGBoost, and GNNs; improved detection accuracy and minimized false positives via feature selection and model tuning.

### Career Compass AI- [Project Link](#)

Dec 2024

- Built an AI career recommender platform with GPT-3.5, LLaMA 3, and a RAG pipeline using Chroma DB, boosting personalized recommendations by 25% and reducing latency by 20%.

### AI-Driven Malware Detection and Prevention System - [Project Link](#)

May 2024

- Executed a malware detection system using multiple ML models with RFE and hyperparameter tuning on a 1.55M API dataset, achieving 97% F1-score and reducing zero-day attacks by 50% with CUDA processing.

## SKILLS

- **AI and Developer Tools:** Gemini API, Hugging Face, GPT, AI Agents, Transforms, Replit, v0, Cursor
- **Backend Development:** Node.js, Express, C++, Java, Spark, JavaScript, Redis, Scala, R
- **Frontend Development:** Angular, React.js, TypeScript, WebFlow, HTML, CSS, Figma, Bootstrap
- **Databases:** MySQL, MongoDB, AWS RDS, DynamoDB, Redshift, Google BigQuery, PostgreSQL
- **Data Skills:** ETL, Python, Data Mining, PyTorch, LangChain, Docker, Apache Airflow, Snowflake, Data Warehousing, Kafka, Hadoop, Elasticsearch, Logstash, Kibana, NLP, MCP, n8n
- **Data Science:** Pandas, NumPy, Matplotlib, Scikit-learn, Keras, Statistical Modeling, LLMs, Scala, CUDA
- **Data Visualization:** Tableau, Power BI, MATLAB, Microsoft Excel (VLOOKUP, Pivot Tables, VBA)
- **Cloud Platforms:** Google Cloud Platform, Amazon Web Services, Microsoft Azure, Kubernetes
- **Project Management & Tools:** Jira, Confluence, GitHub, Git, Microsoft Project, Microsoft Office
- **Business Processes & Methodologies:** Agile, SDLC, Business Requirements Gathering