

Dhananjai Senthil Kumar

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EDUCATION

Northeastern University **Sep. 2021 – May 2025**
*Bachelor of Science in Computer Science, **Concentration in Artificial Intelligence*** *Boston, MA*

- 3.7 GPA, Dean's List
- **Relevant Courses:** Software Engineering, Algorithms, Object-Oriented Design, Reinforcement Learning, Machine Learning
- **Certifications:** AWS Solution Architect, AWS Cloud Practitioner

EXPERIENCE

Cloud303 **Aug. 2023 – May 2025**
Software Engineering Intern *Boston, MA*

- Processed **terrabytes of IMDb data** using PySpark and AWS Glue for ML pipelines
- Automated screenplay analysis via **serverless REST APIs** and LLMs (Langchain)
- Deployed **retrieval-augmented generative chat agents** for clients using Bedrock and Lambda
- Led migration of **27-account AWS Organization** to Terraform with 200+ services

rev **Aug. 2023 – May 2025**
Co-founder, Director *Boston, MA*

- Founded a hackerspace community of **350+ members** within a semester of operation
- Built **rev connex** using graph databases and embeddings to connect people and projects
- Led workshops and events featuring notable tech investors like Cory Levy

Solis Machines Inc. **July 2022 – July 2023**
Founder *Boston, MA*

- Delivered **high performance computing solutions** for artists and engineers
- Deployed **multicloud infrastructure** with AWS, GCP, and Azure via Terraform and Kubernetes
- Raised **5-figure funding** and managed a team of 4 engineers

University of Connecticut CQM **June 2021 – August 2021**
Research Intern *Farmington, CT*

- Developed **Agent-Based Models** for bacterial simulations in microbiomes
- Co-authored research on Agent-Based Models of Polymicrobial Biofilms in peer-reviewed journal

PROJECTS

LotCreator | *Next.js, React, Firebase, GPT-4, Computer Vision* **Aug. 2023**

- Automated product appraisal from **16 hours to 16 seconds** using computer vision and LLMs
- Built end-to-end application for auction management using **MVVMC design**

Exercise Activity Recognition | *Python, PyTorch, CoreML* **May 2022**

- Trained **Convolutional Neural Networks** to analyze timeseries sensor data for exercise recognition
- Built iOS client for **on-device model finetuning** and inference

Autonomous Game Agent | *Python, PyTorch, PyGame* **Nov. 2023**

- Implemented **genetic algorithm and Deep Q Network** to play Jetpack Joyride autonomously

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, PostgreSQL, GraphQL, TypeScript, JavaScript, HTML/CSS, Rust
Frameworks/Libraries: PyTorch, TensorFlow, React, Next.js, Node.js, Langchain, OpenCV, Pandas, NumPy, TailwindCSS, MongoDB, Neo4j, Apache Spark, Selenium
Cloud/DevOps: AWS, GCP, Azure, Firebase, Docker, Kubernetes, Terraform, Git, CI/CD, Vercel, Postman