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

- 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 | *Co-founder & Program Director · Boston, MA*   **Aug. 2023 – May 2025**

- Founded a hackerspace community of 350+ members within a semester of operation
- Built **rev connex**, a social platform connecting people and ideas through graph relations
- Led technical workshops and events featuring notable tech investors like Cory Levy

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

- 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

UConn CQM | *Research Intern · Farmington, CT*   **June 2021 – August 2021**

- Developed Agent-Based Models for bacterial simulations in microbiomes
- Published research paper on polymicrobial biofilms in peer-reviewed journal

PROJECTS

LotCreator | *Next.js, React, Firebase, Computer Vision, Web Scraping*   **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, iOS*   **May 2022**

- Implemented custom CNN architecture to analyze timeseries sensor data for exercise recognition
- Built iOS client for on-device model finetuning and inference

Multi-Agent Poker RL System| Python, PyTorch, Reinforcement Learning, MCTS, CFR   **Dec. 2024**

- Implemented ReBeL and Monte Carlo CFR algorithms for 6-player No-Limit Texas Hold'em poker
- Achieved superior performance against Q-Learning agents through regret minimization

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

- Trained a game agent with a genetic algorithm and Deep Q Networks

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, PostgreSQL, GraphQL, TypeScript, JavaScript, HTML/CSS, Rust
Frameworks: 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