

# RYAN CHEN

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## Objective

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Recent Computer Science graduate from Boston University with experience in AI development, software engineering, and data management. Skilled in Python, Java, and SQL. Seeking back-end or full-stack roles at organizations advancing scientific computing, cybersecurity, and educational technology.

## EDUCATION

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**Boston University, Boston, MA**

Graduated May 2025

Bachelor of Arts in Computer Science

Scholarship: Bayride Alumni Scholarship

Relevant Coursework: Algorithms, Cryptography, Discrete Math, Java, Computer Systems

## TECHNICAL SKILLS

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Languages: Python, Java, C, OCaml, SQL, HTML/CSS, JavaScript, P5js

Tools: Git, GitHub, Command Line, Bootstrap, Google Workspace

Concepts: AI/ML, Data Structures, Algorithms, Cryptography

## PROJECTS

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**Tetris Q-Learning AI** · *Java, Reinforcement Learning*

- Implemented neural network with custom state features (board height, holes, line clears)
- Achieved 100+ line clears through optimized reward function and experience replay
- Reduced training time 30% via adaptive  $\epsilon$ -greedy exploration strategy

**Chess AI with Alpha-Beta Pruning** · *Java, Game Theory*

- Developed evaluation heuristic considering piece values, mobility, and pawn structure
- Optimized with move ordering to prune 40% more nodes than standard minimax
- Integrated with Sepia framework to compete against human and AI opponents

## EXPERIENCE

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**Outlier (Remote)**

Jun 2024 – Aug 2024

AI Development Intern

- Assisted in AI model development: preprocessing data, feature engineering, and model evaluation.
- Audited outputs to ensure accuracy and alignment with project goals, supporting performance improvement.
- Contributed to implementation of best practices for analysis and model enhancement.

**Infinity OY Virtual Program (Remote)**

Jul 2022 – Aug 2022

Software Engineering Intern

- Coordinated project timelines and stakeholder expectations to meet deliverables.
- Developed solutions in Python, Java, and SQL to address business challenges.
- Applied strategic problem-solving to deliver impactful software in a business framework.

**CTE Industry Scholar (Remote)**

Jul 2020 – Aug 2020

Data Management Intern, Dept. of Social Services

- Supported DSS as a data manager, improving file organization and addressing technical issues.
- Communicated with clients and documented support priorities for escalation.
- Completed 1000+ requests via Microsoft Teams collaboration.

**SEO Scholars, New York, NY**

Feb 2018 – Present

Scholar

- Selected among 1000+ for an 8-year academic program supporting first-gen college students.
- Completed 720+ hours of prep courses in math, writing, and SAT; attended career workshops.