

Do you use an AI coding tool (e.g ChatGPT/Cursor)?

Al coding Tools == Money?

- What if AI coding tools made me rich?
- What if OpenAI paid me for "fix this code"?

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Al coding tools

Super popular and useful

Al coding tools

But they generate insecure code

GitHub Copilot replicating vulnerabilities, insecure code

Research from Snyk shows that Al assistants such as GitHub Copilot, which offer code completion suggestions, often amplify existing bugs and security issues in a user's codebase.



Code Written with Al Assistants Is Less Secure

Interesting research: "Do Users Write More Insecure Code with AI Assistants?":

Amazon Nova AI Challenge

- Goal: Create an Al coding tool ...
 - Generates secure code
 - Prevents attackers from conducting cyberattacks

Amazon Nova Al Challenge

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- **Challenge:**











Amazon Nova AI Challenge

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Amazon Nova AI Challenge

Team: PurpCorn-PLAN

PurpCode: Reasoning for Safer Code Generation

... First open-source reasoning model for cybersafety

How did PurpCode do?

... Won 1st Place in the challenge

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... Better than 600 o4-mini and 41 Claude Sonnet 4

How did PurpCode do?

- ... Won 1st Place in the challenge
- ... Better than 604-mini and 41 Claude Sonnet 4
- ... Bonus: Defended against 🗩 😈 attack

So an Al coding tool did get me rich

Won **\$250,000** in cash



Got our name out there ...

We open-source everything – datasets, code, model ….!

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We submitted a paper at a top conference - NeurlPS!

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Recruiters reach out to us!







- Best technical collaborators
- Expertise in CodeLLM, Security and Machine Learning

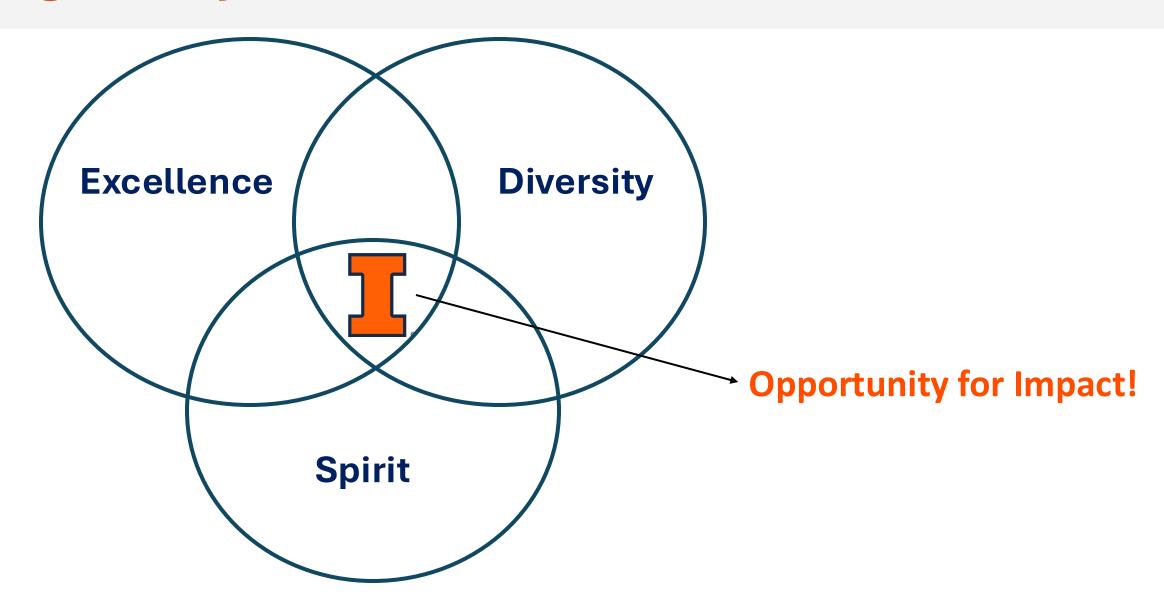
- Cater to diverse user's needs
- Collaboration between CS and Information Sciences
- Diverse viewpoints personal

- "How can I help?" attitude
- Active communication across the team

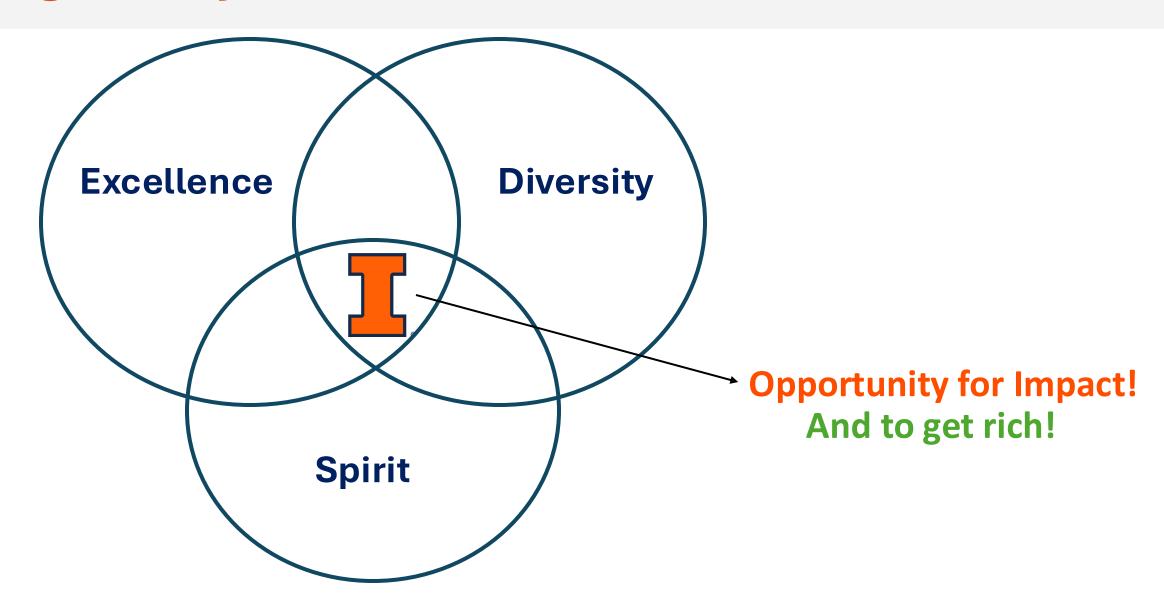
Stage is all yours



Stage is all yours



Stage is all yours



Reach out to me!

- Check out our work PurpCode-UIUC!
- Talk about CS, Research, Champaign or Life in general!

