Computational Jobs Marketplace

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Agenda

1 Online Jobs Marketplace

2 Existing Technology in Online Jobs Marketplace

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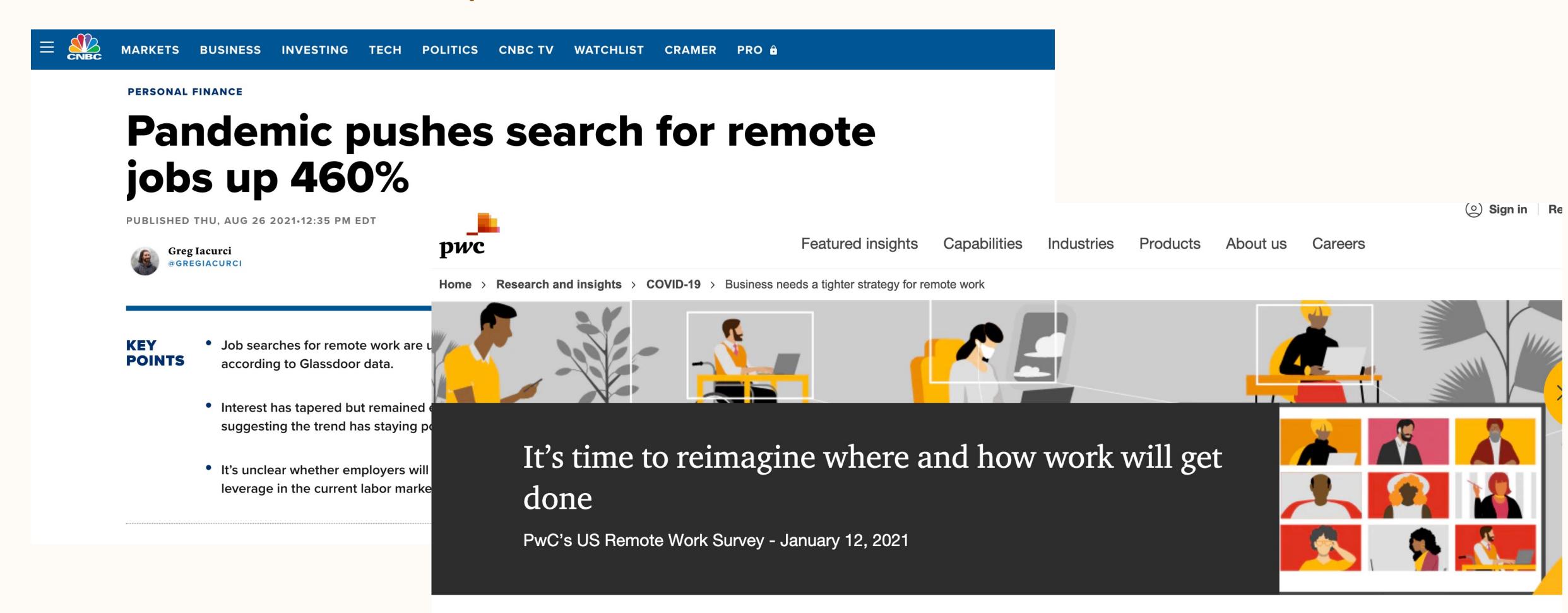
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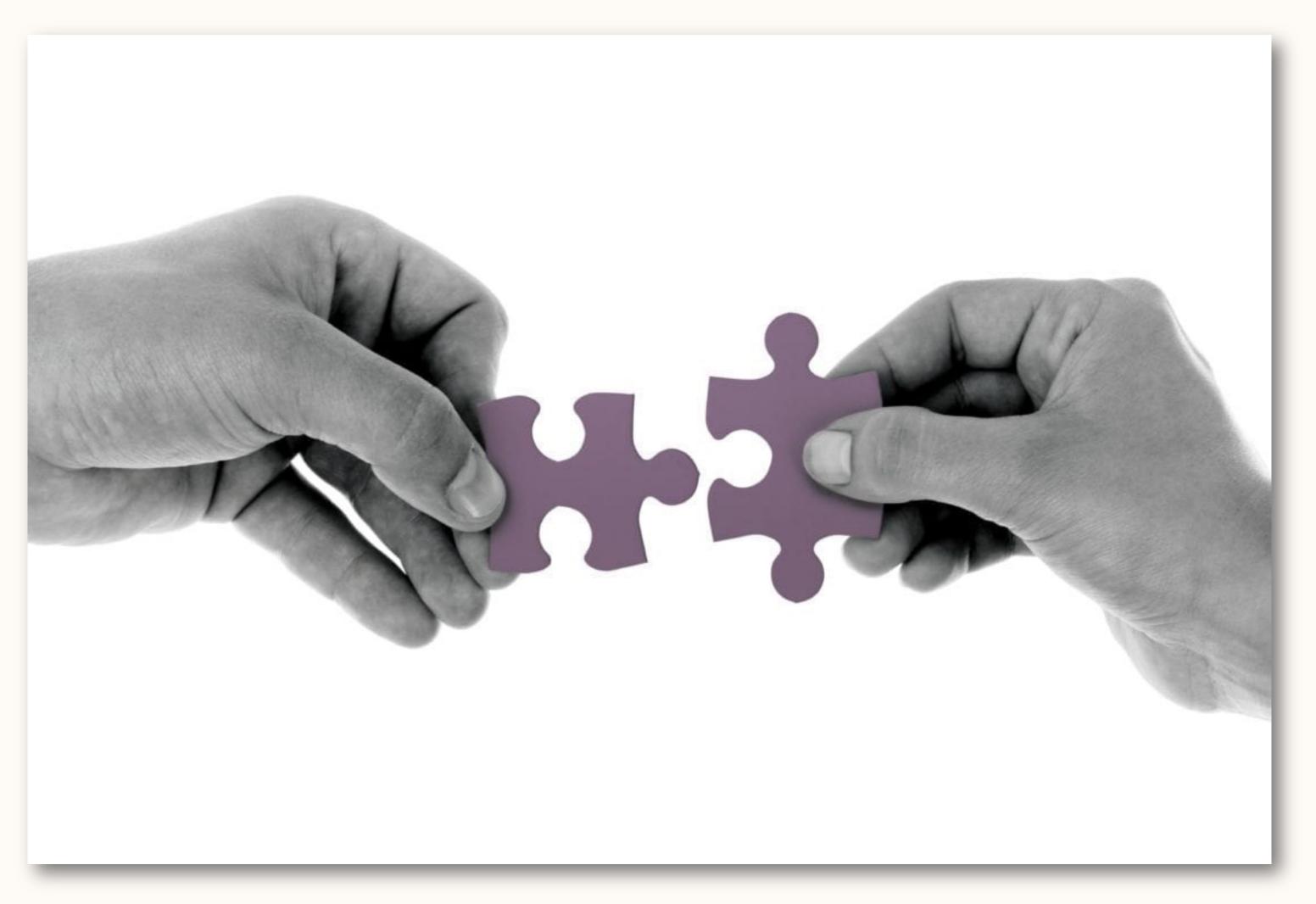


[&]quot;The global online recruitment market size was \$28.68 billion in 2019 & is projected to reach \$43.39 billion by 2027."



Nine months into a monumental shift to work-from-home, business leaders are more convinced about the productivity gains achieved, but some are no closer to giving up the office.



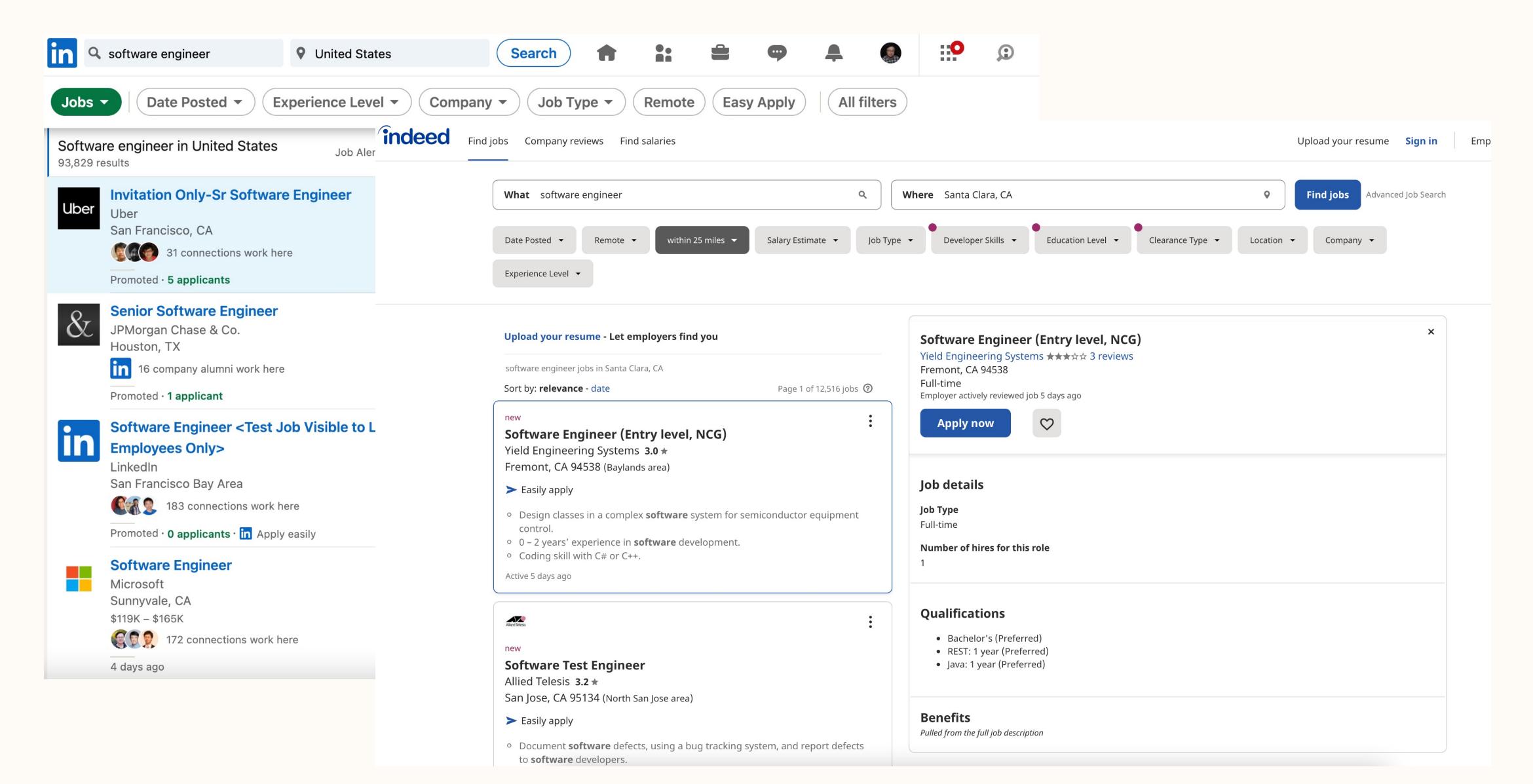


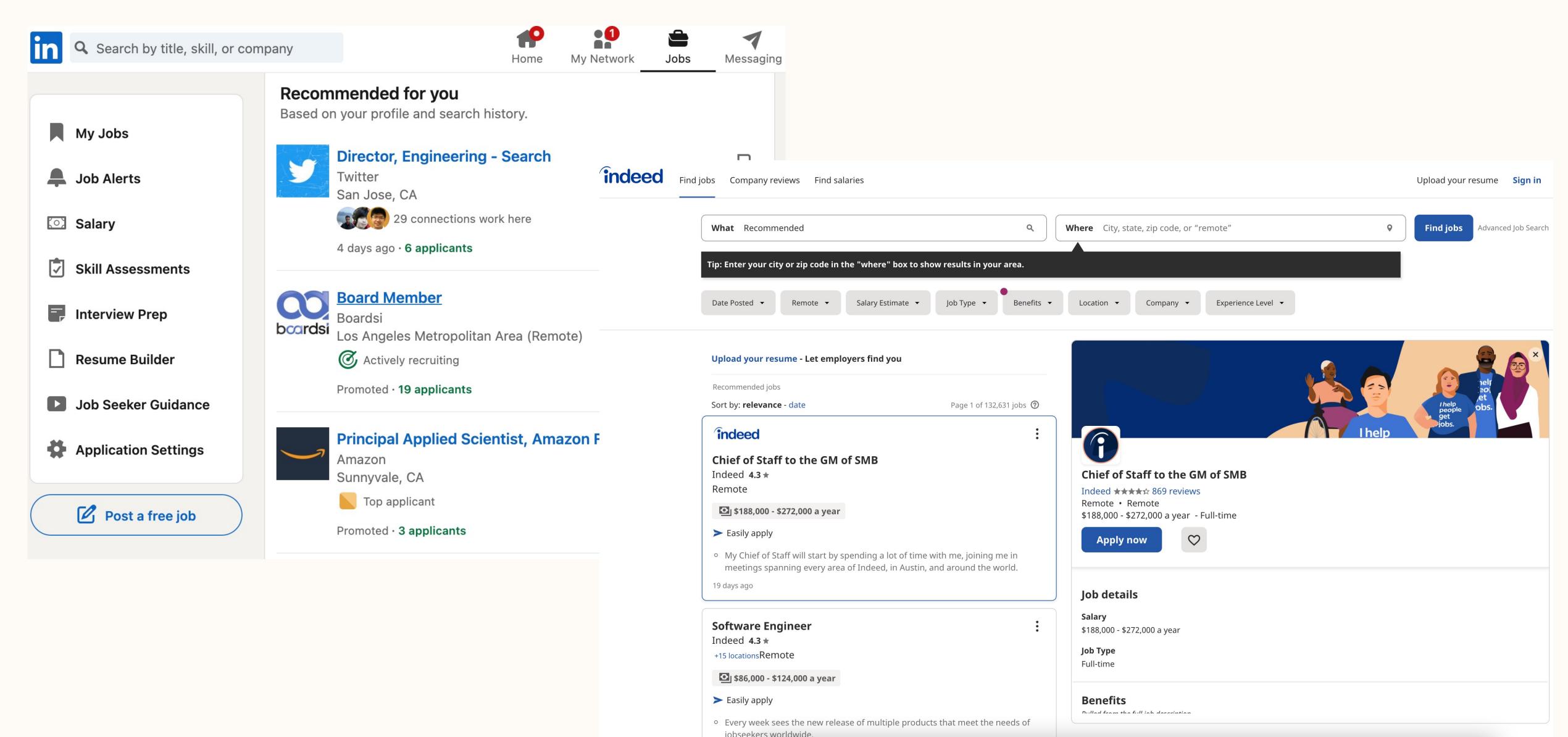
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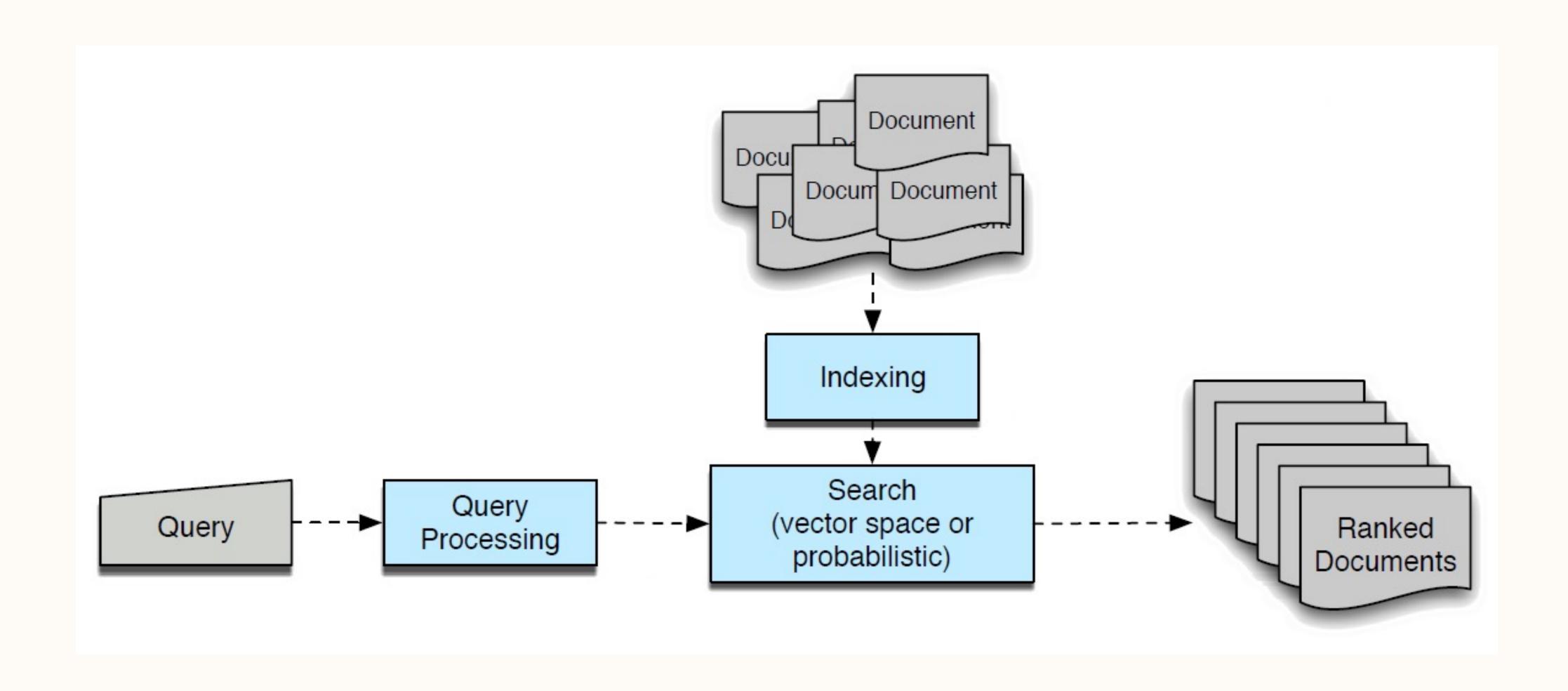
Existing Technology in Online Jobs Marketplace

Borrow and Adopt Their More Generic Counterparts





Classic Search & Recommendation Systems



- Text understanding: from bag-of-wording, to entities, to embeddings
- Search-based architecture
- Sophisticated text matching
- Heavy feature engineering from user activity signals
- Learning to rank

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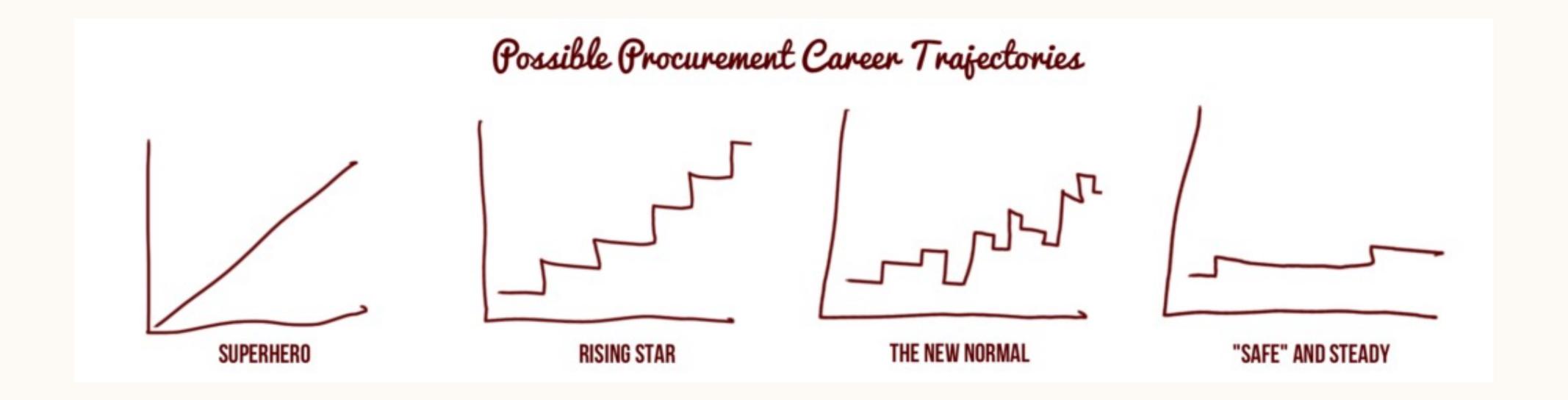
2 Existing Technology in Online Jobs Marketplace

- How to avoid "VP-Intern" problem?
- How to inspire career move?
- How to inspire location move or remote work?
- How to help companies find best talents faster?
- Can we forecast and predict the marketplace and therefore create recommendations beforehand?

- Consider native properties of jobs marketplace
- Model marketplace dynamics from first principle

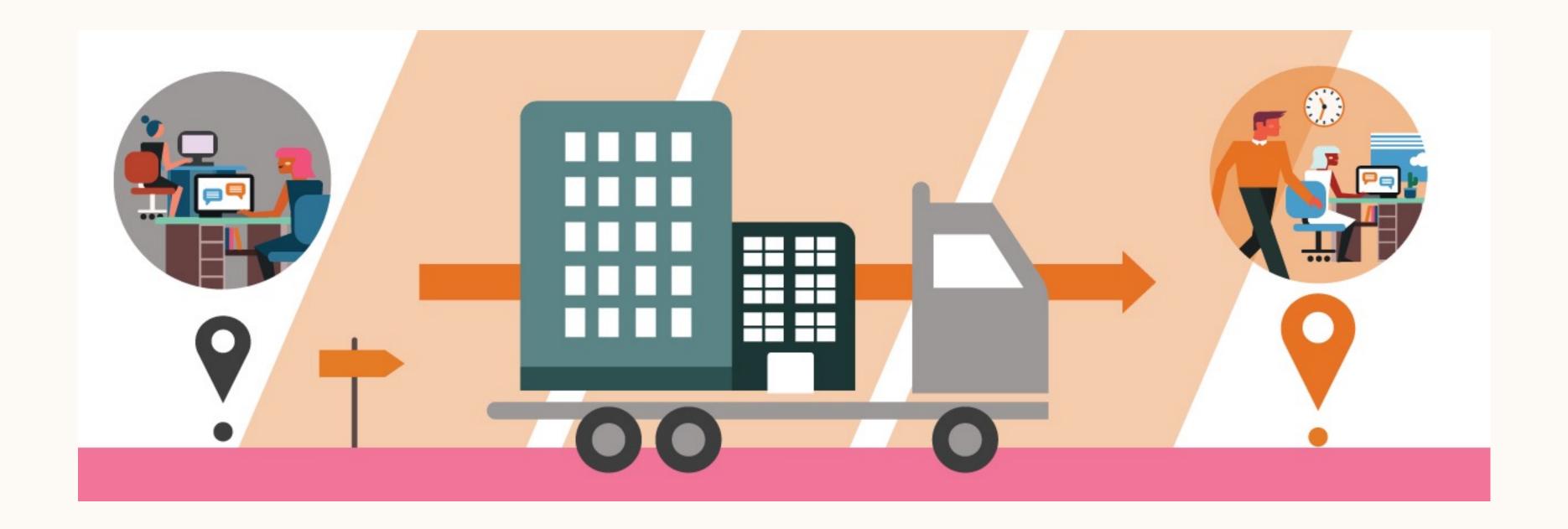
Computational Jobs Marketplace: Opportunity I

Understanding Career Trajectories



Computational Jobs Marketplace: Opportunity II

Understanding Mobility and Remote Work



Computational Jobs Marketplace: Opportunity III

Modeling Demand & Supply Optimizing Marketplace Utilities



Recap

1 Online Jobs Marketplace

2 Existing Technology in Online Jobs Marketplace

Thank you

