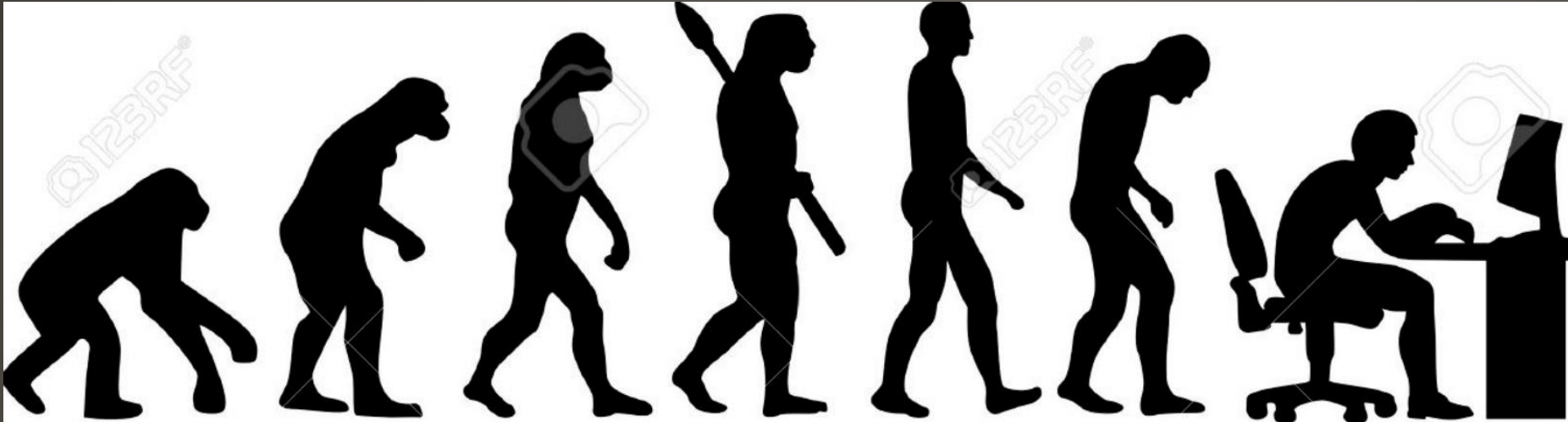


# Simplified View of a Programmer's Evolution

- Sushain Pandit

## A Typical Programmer's Evolution



We all know about the first phase of evolution... ;-)

However, the next phase ...

# A Typical Programmer's Evolution



Large Corporate

Startups

Consulting/Freelancing



# A Typical Programmer's Evolution



## Large Corporate

## Startups

## Consulting/Freelancing

- Junior/Associate
- Senior/Staff
- Principal/Lead
- Architect/Manager
- Sr. Architect/Director
- ~ Executive Bands ~

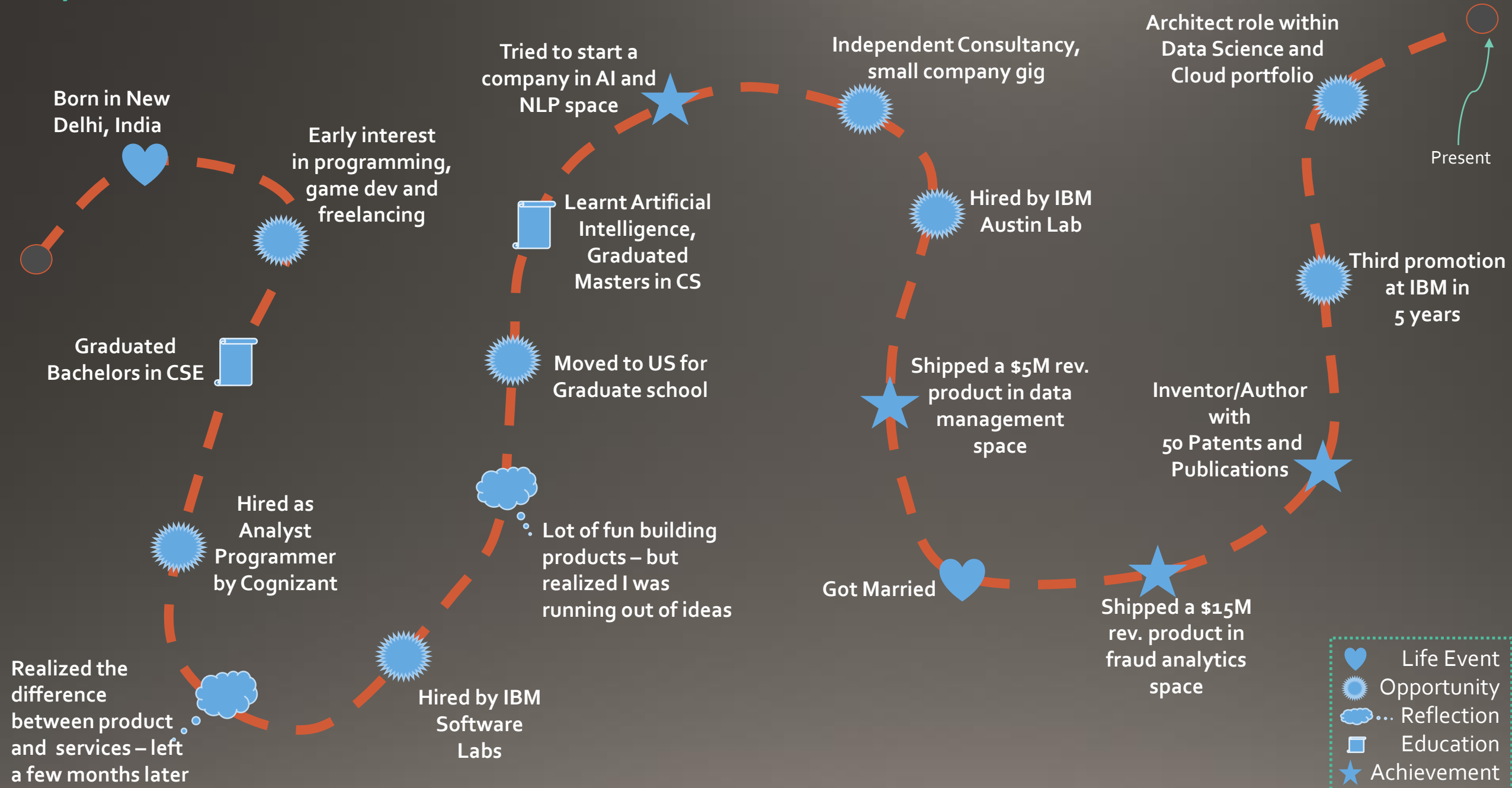


- Employee # 1-25
- Principal/Lead/Director/Architect/...
- Company gets acquired or IPO
- Cash out and pivot to next startup  
OR  
← Follow 'Large Corporate' lifecycle

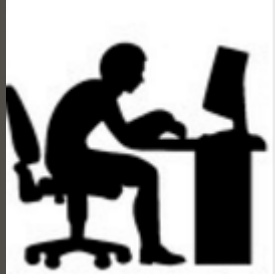


- Will do anything for \$8
- Will be selective at market rate
- Will be selective, work within network
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# My Personal Evolution



# A Typical Programmer's Evolution



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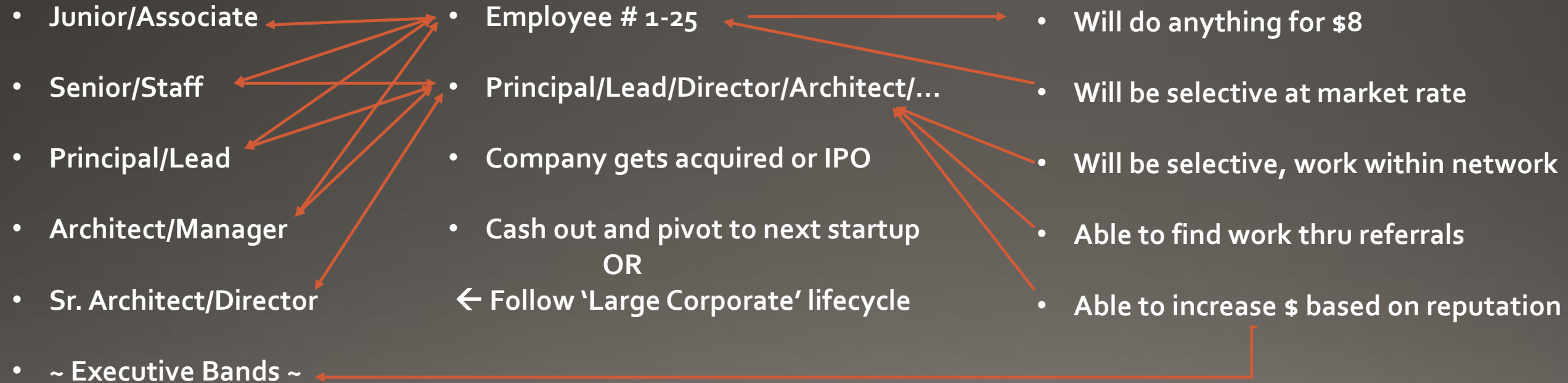
# A Typical Programmer's Evolution



## Large Corporate

## Startups

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## A Typical Programmer's Evolution

**What are the Governing Factors that underlie these transitions?**

## A Typical Programmer's Evolution

### Governing Factors (Personal)

- I want to remain an Individual Contributor – I don't want to manage anything/anyone ever, except myself 😊
- I don't want to manage people but I'm ok leading a project from a technical standpoint
- I might consider a leadership/management role for sake of the product I love
- I feel management is the logical next step because there's no where else to go
- I don't want to be managed by people and I don't want to manage people
- Other factors
  - Want more \$\$\$, benefits, perks, etc.
  - Personal preference for location, flexible lifestyle, remote work, etc.
  - ...

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## A Typical Programmer's Evolution

### Governing Factors (Personal)

- I want to remain an Individual Contributor – I don't want to manage anything/anyone ever, except myself

### Skills Expected for a long-term rewarding career

- Implementation
  - Expert knowledge of design patterns, performance metrics, time/space complexity, working at scale, etc.
  - Expert knowledge of popular languages, especially in your 'tier' of specialization (frontend, backend, etc.)
  - Working knowledge across the stack to understand functional design, debugging issues, etc.
- Ops/Process/Testing
  - Up-to-date knowledge of modern devOps tools for build, deploy, test, prod lifecycle
- Communication
  - Being able to express code in somewhat abstract terms
  - Being able to function in an Agile team structure, etc.

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## A Typical Programmer's Evolution

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- I don't want to manage people but I'm ok leading a project from a technical standpoint

### Skills Expected for a long-term rewarding career

- Design/Architecture/Implementation
  - Ability to work with clients, design solutions, translate requirements into technical specifications
  - Expert knowledge of design patterns, performance metrics, time/space complexity, working at scale, etc.
  - Working knowledge of representative languages across the stack
- Communication
  - Excellent communication to translate business problems into technical language
  - Ability to task and guide individual contributors
- Ops/Process/Testing
  - Excellent ability to manage time, multi-task and fight fires
  - Working knowledge of modern devOps tools for build, deploy, test, prod lifecycle

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### Skills Expected for a long-term rewarding career

- Leadership and Communication
  - Excellent communication and ability to understand and map business problems
  - Ability to rally technical architects and principal engineers around your product vision and direction
- Business/Design/Architecture
  - Ability to foresee business imperatives, market conditions and directionality
  - Ability to work with clients and understand requirements from a technical point of view
- Ops/Process
  - Working knowledge of what's required for seamlessly operating a development house

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### Skills Expected for a long-term rewarding career

- Communication/Flexibility
  - Being able to explain deliverables to clients
  - Being able to adapt to changing nature of work on a per engagement basis (time-zone, geo, language, tools, etc)
- Implementation
  - Working knowledge of several languages across the stack due to changing nature of engagements
  - Knowledge of design patterns, performance metrics, time/space complexity, working at scale, etc.
  - Working knowledge across the stack to understand functional design, debugging issues, etc.
- Ops/Process/Testing
  - Ability to adapt to new tools, technologies, communication mechanisms according to client needs
  - Working knowledge of devOps tools to simplify project lifecycle for your development house of one

Questions?

**Feel free to connect**

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<https://www.linkedin.com/in/sushainpandit>