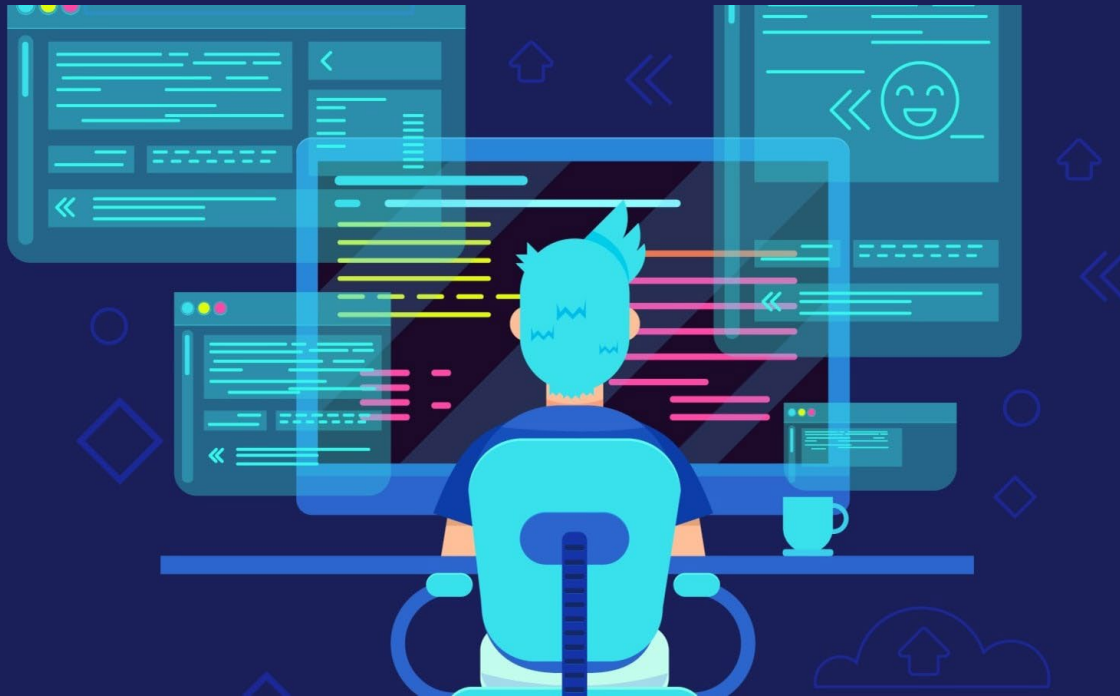


TECHNICAL CAREER PATHS



First 5-7 Years



Average Career Track

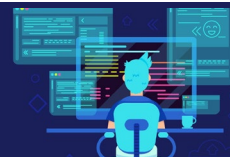
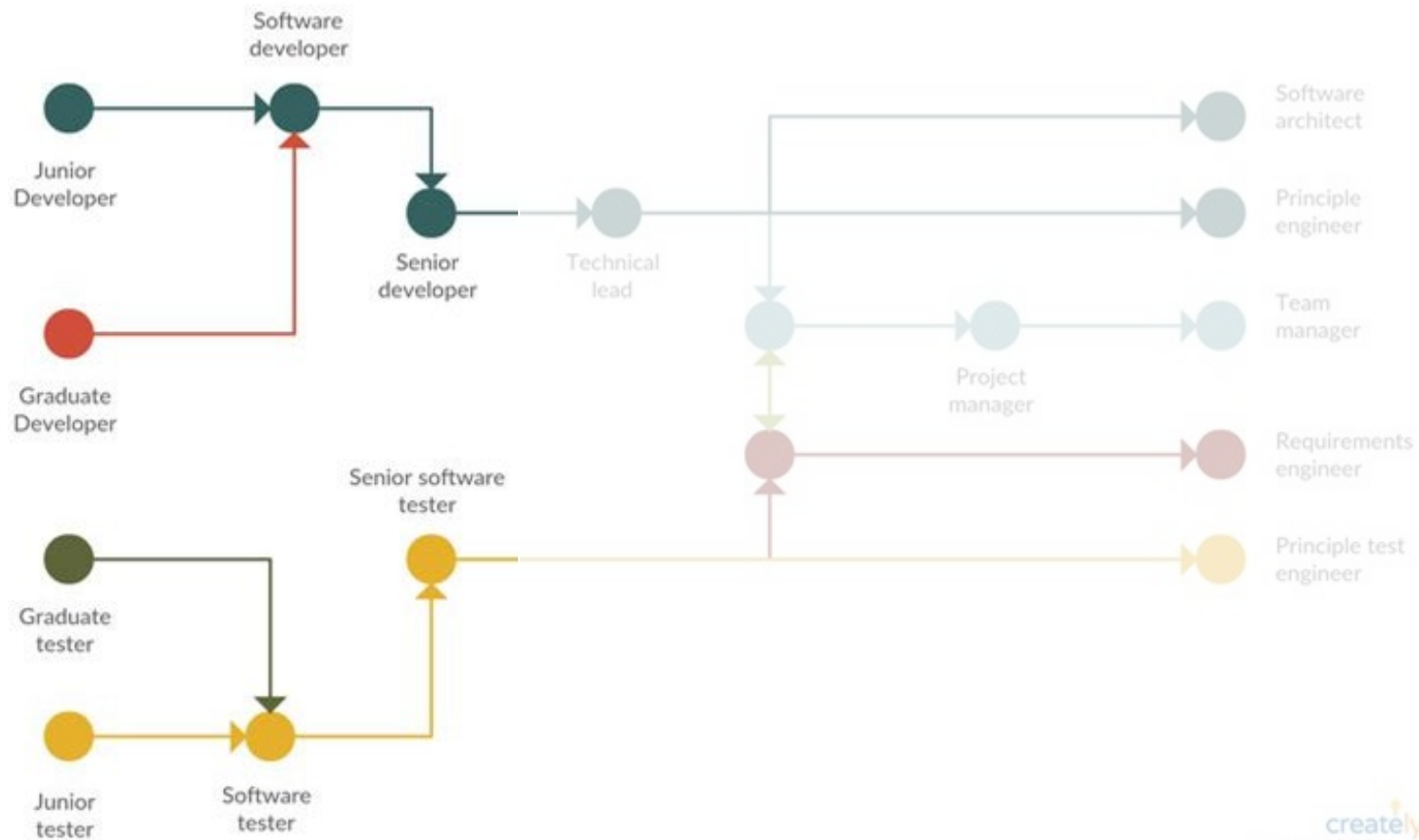
1-3 - Junior Developer

2-5 - Mid Level Developer

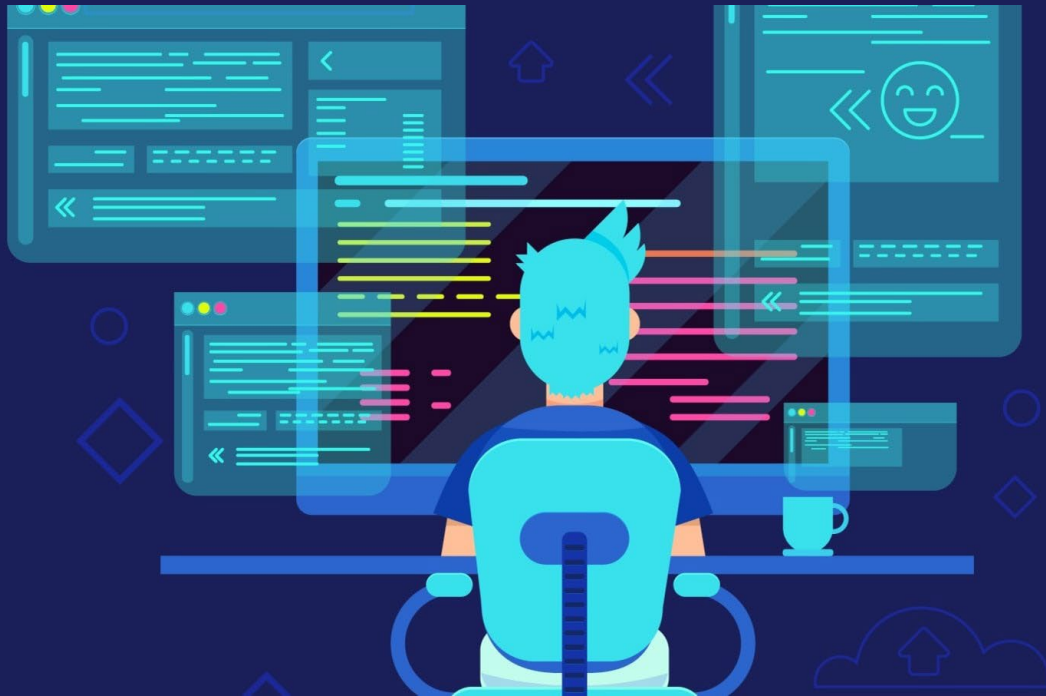
5-7 - Senior Developer

Common to have a job change at 34





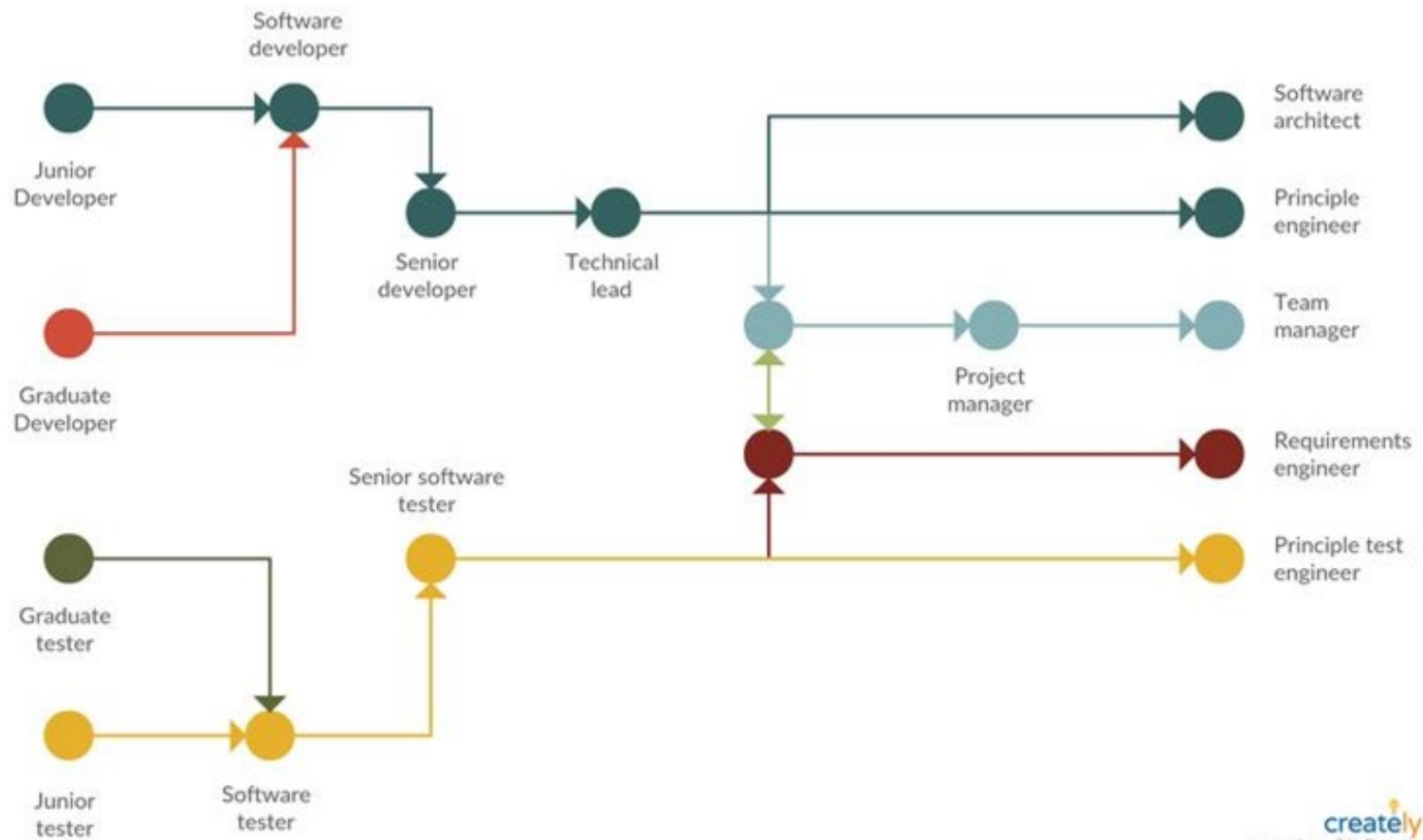
Long Term Goals



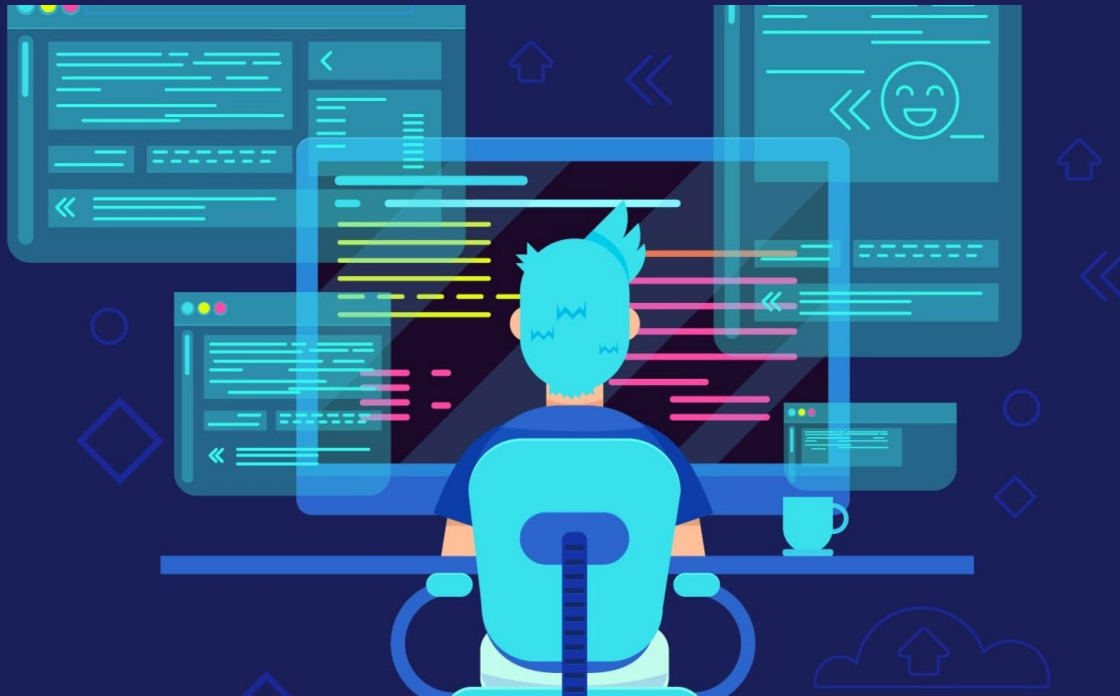
Career Peaks

- VP Engineering
- CTO
- Chief Architect
- Principal Engineer
- Software Architect

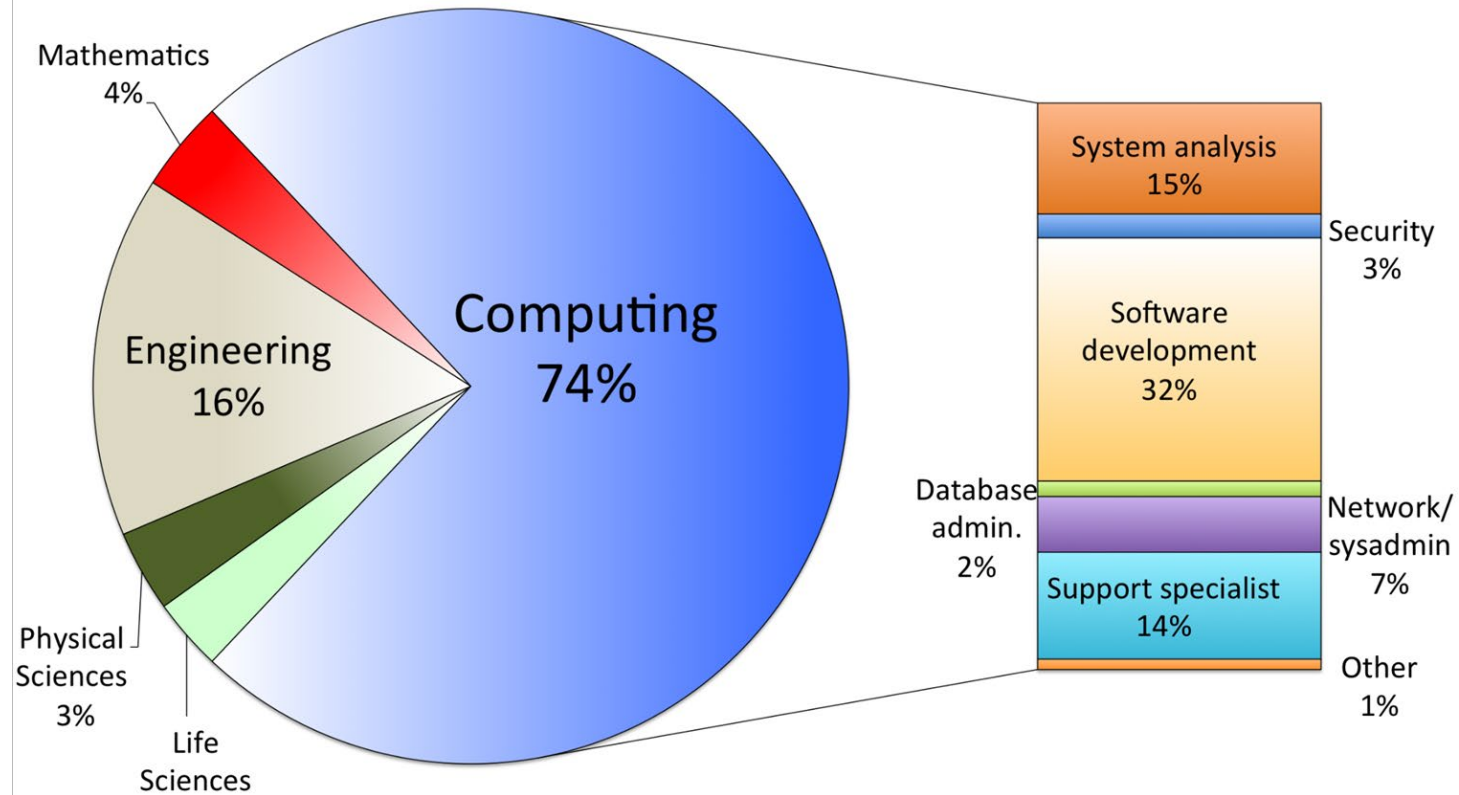




Career Paths



US-BLS New U.S. STEM Jobs Through 2022 by STEM %



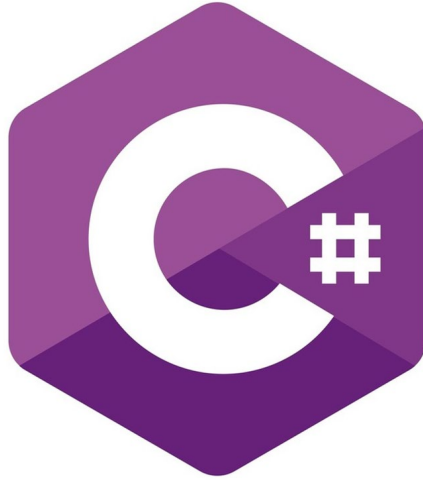
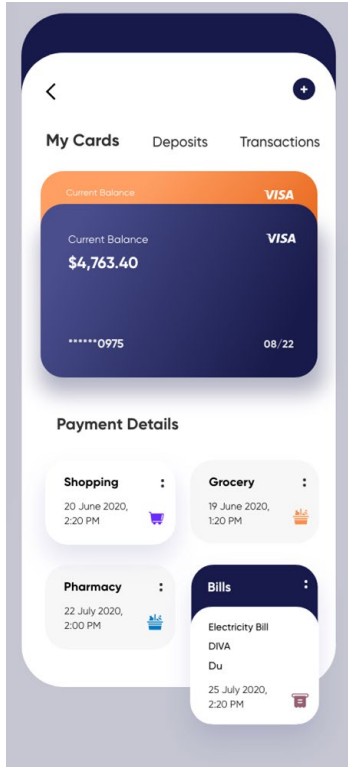
Full Stack Developer

Frontend: JavaScript, Angular, React

Backend: APIs, C#, Java, node.js, Python

Database: SQL Server, Postgres, MySQL



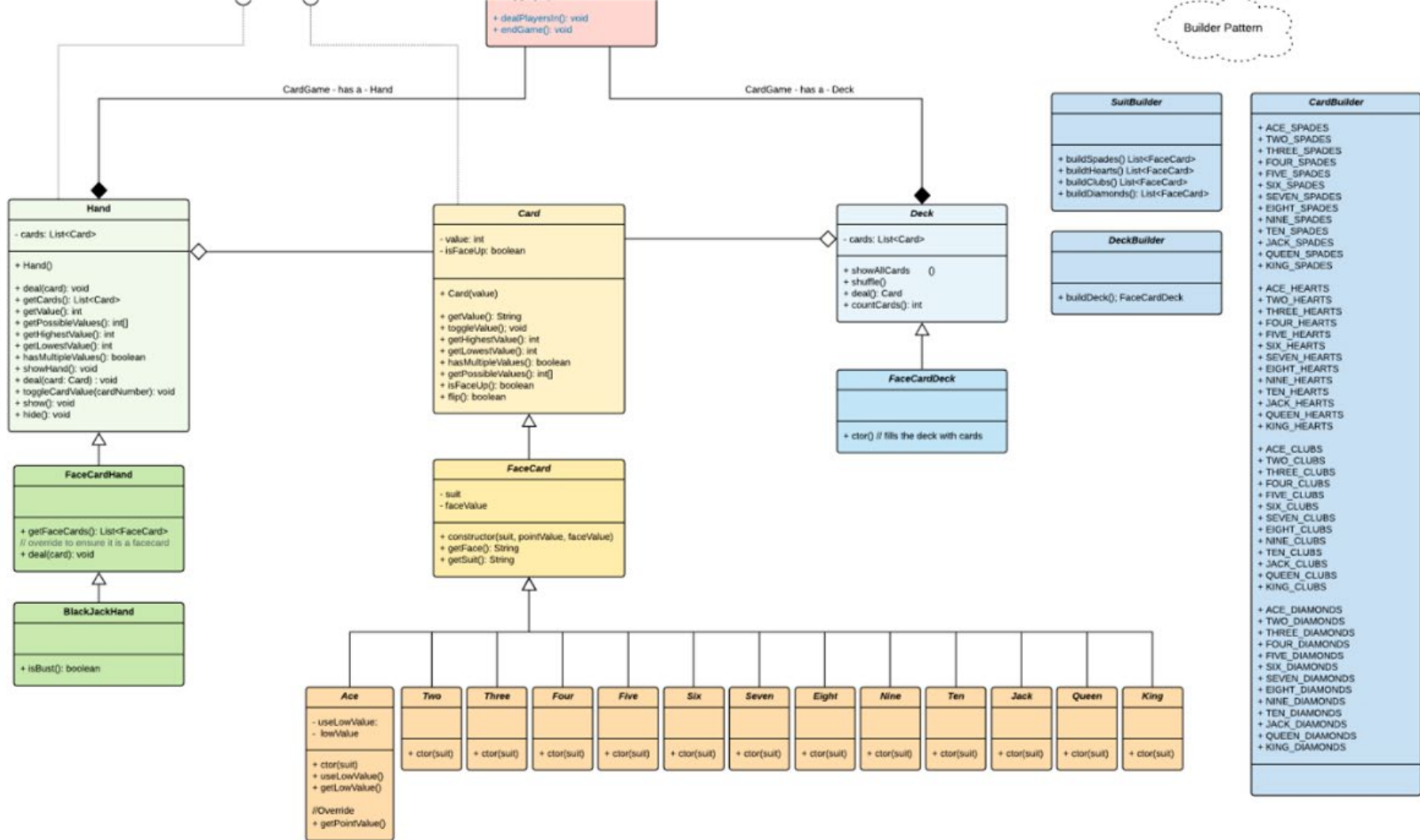


Back End Developer

Web Services / Application Integration
Microservices / Cloud

C# (ASP.NET)– Java (Spring)– node.js (sails)
Python (Django)– Ruby (Rails)





Front End Developer

Web Development

- JavaScript – Angular, React, VUE, TypeScript
- CSS– Bootstrap, SCSS, Grid, FlexBox
- HTML



Jaisone

I AM DESIGNER

I Make Wonderful Things

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

READ MORE

CREATIVE AND PROFESSIONAL

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores

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READ MORE

OUR TEAM



NAME SURNAME
Manager
Lorem ipsum dolor sit amet, consectetur adipiscing elit



NAME SURNAME
Manager
Lorem ipsum dolor sit amet, consectetur adipiscing elit



NAME SURNAME
Manager
Lorem ipsum dolor sit amet, consectetur adipiscing elit

SELECTED WORK

[ALL](#) [WEB DESIGN](#) [LOGO DESIGN](#) [BRANDING](#)



GET IN TOUCH

NAME

EMAIL

SEND

Jaisone

I AM DESIGNER

I Make Wonderful Things

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

READ MORE

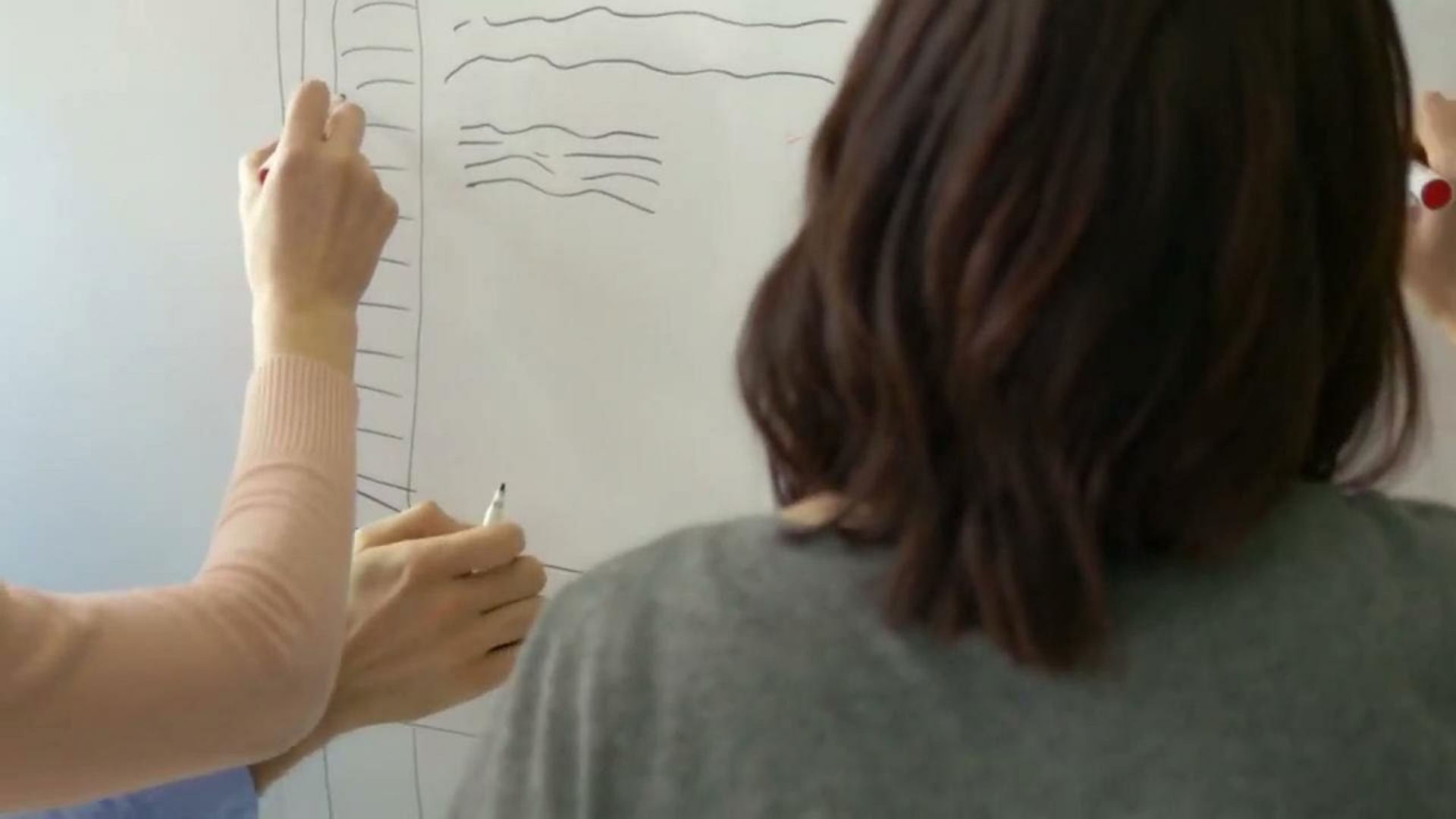
CREATIVE AND PROFESSIONAL

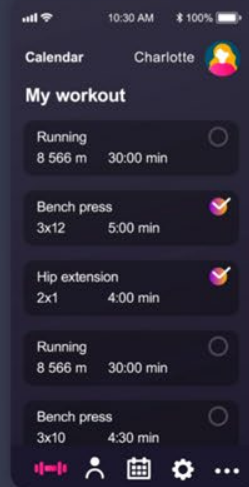
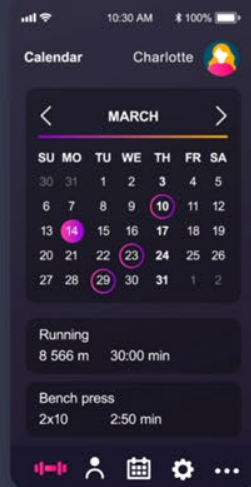
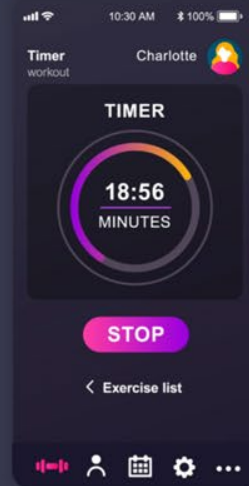
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OUR TEAM



NAME SURNAME
Manager
Lorem ipsum dolor sit amet, consectetur adipiscing elit





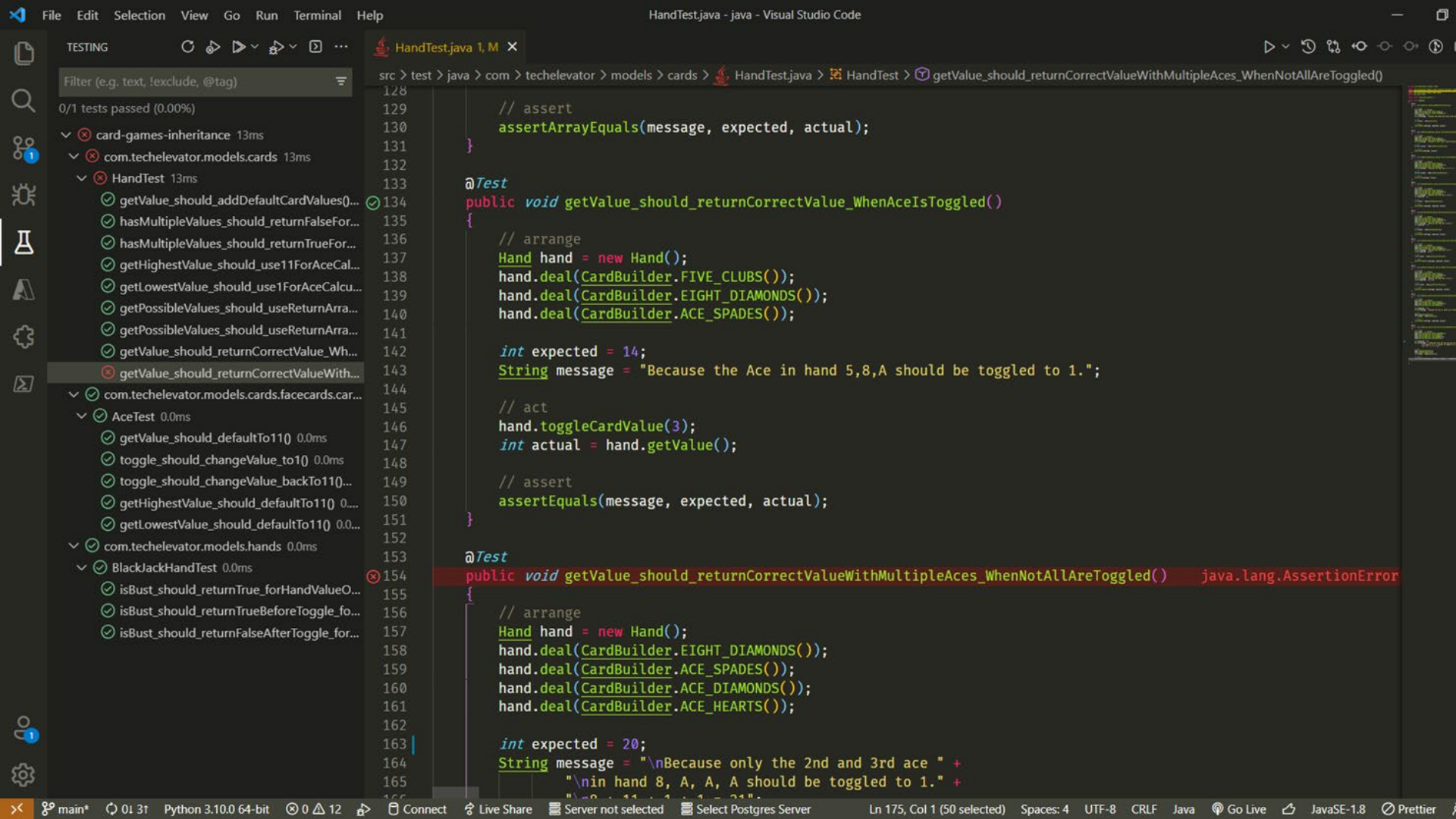
Test Engineer

QAE / SDET

Automated Testing

- **Functional Testing** - Selenium, Cypress
- **Performance / Load Testing** - Mercury LoadRunner, Gatling, JMeter, New Relic
- **Static Code Analysis** - SonarQube, JSHint/Lint, FindBugs, CheckStyle, PMD
- **Unit Tests / Code Coverage** - TestNG, JUnit, Mockito, Jasmine, JaCoCo
- **External APIs** - Apiary, Blueprint
- **Security** - Fortify, Checkmarx, Veracode





Tester

QA

Manual Testing

- **Creativity** - Break things in new and exciting ways
- **Familiarity with Product and Users** - Can lead to Product Management
- **Test Plans** - Using bug tracking and release management software





Operations Engineer / SysAdmin

Environment Management

- Existing Services & Systems - Maintain current SLAs
- Scripting - Python, Bash, PowerShell





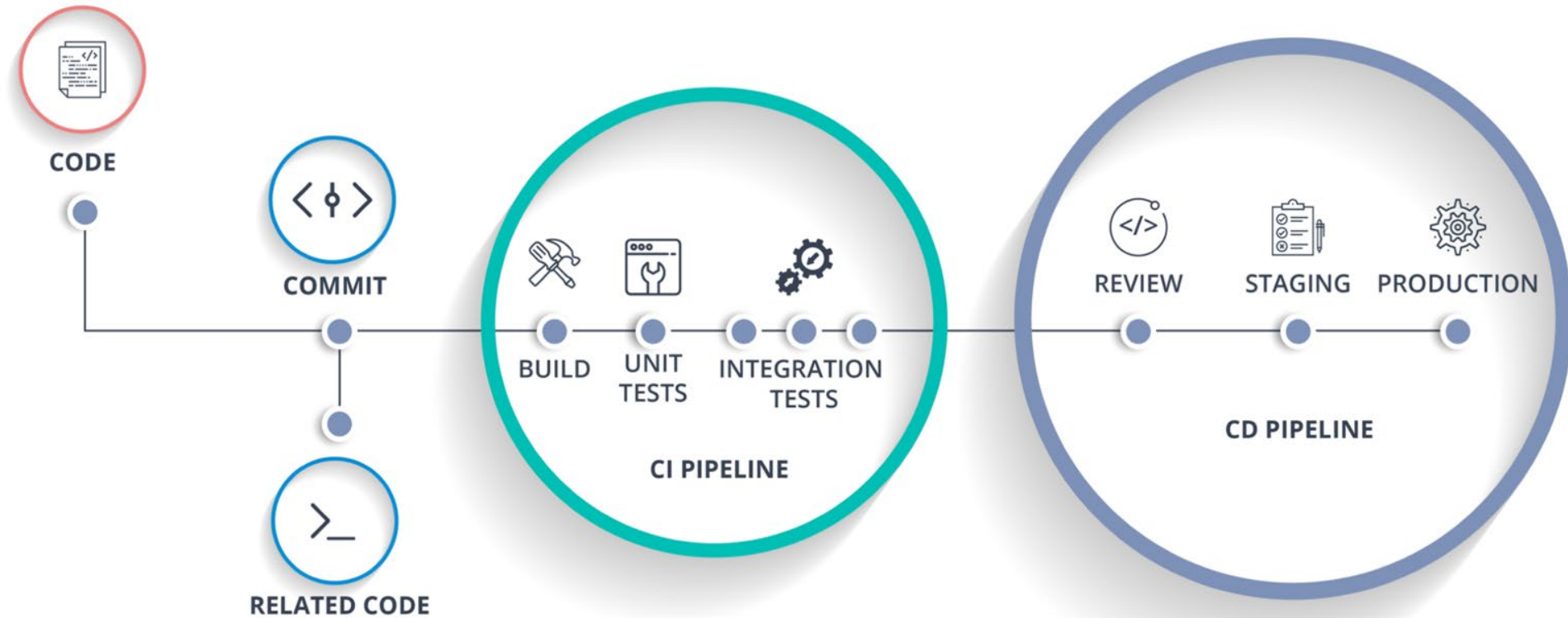
DevOps / SRE

Development + Operations = DevOps

- Continuous Integration - CI / CD pipelines
- Environment Management - Test / QA / Prod environments
- Deployment Management - Blue/Green deployments or Clouds
- Systems Monitoring - Some overlap with Site Reliability Engineering



CI/CD Process Flow

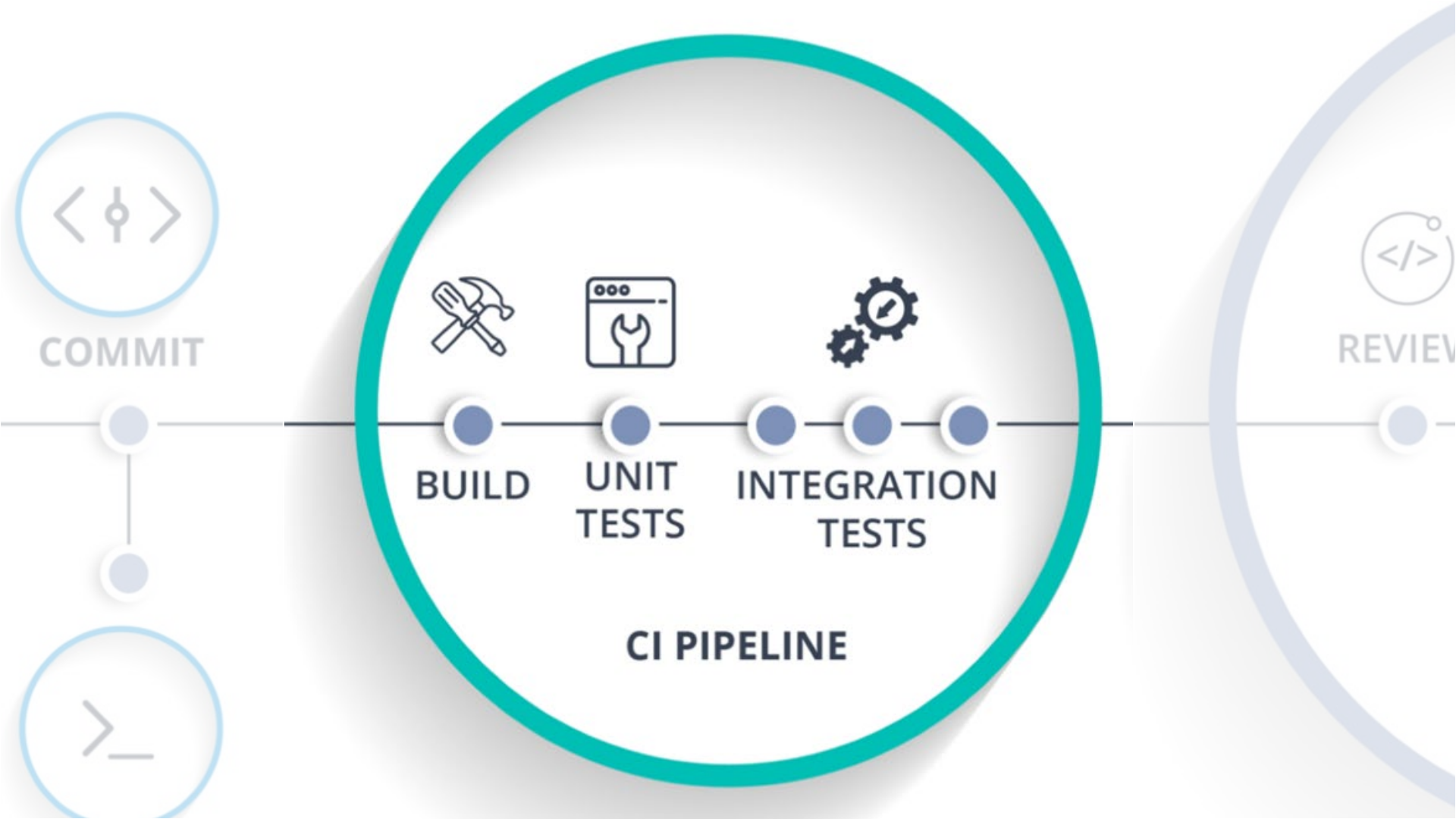


Build Engineer

Release Management

- **Build Systems** - Jenkins / Hudson, TeamCity, Bamboo
- **Feature Toggles** - Database updates to distinguish releases





Maintenance Engineer

Maintain Other People's Code

- **Debugging** - Get good at problem solving
- **Performance Analysis** - What's really going on?
- **Cross Stack** - Tracing through the entire application
- **People Focused** - Heavy interaction with development/support teams
- **Support Engineer** - Be careful of this title, make sure it's technical work, not phone support





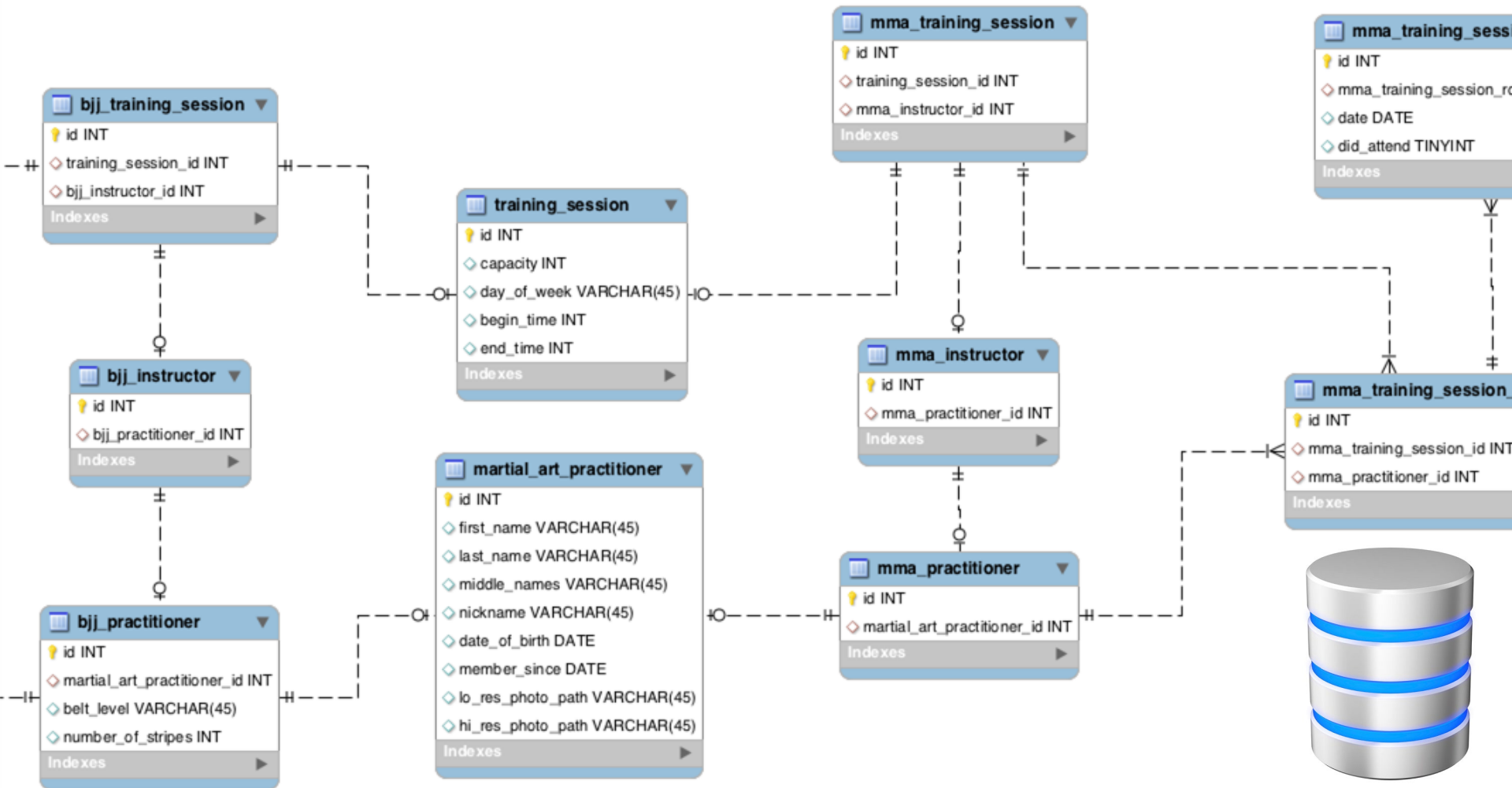
0101 **BUG** 1001

Database Administrator

Keep the database tuned and running

- Performance - Tracing/rewriting queries
- Indexing
- Certifications - Oracle/MSSQL/etc





Data Scientist

Developer / DBA / Statistician

- Additional Training - Machine Learning/Statistics
- Languages - R, Python
- Tools - Tableau, QlickView, Spotfire
- Reporting – Data Visualization





Business Analyst

Technical Crossover

- **Technical Acumen** - Understand technology, concepts, and developer challenges
- **Attention to Detail** - Work with customer to understand their specific needs
- **Communicator** - Can interact with many different roles on the team
- **Facilitator** - Often required to lead meetings with various stakeholders
- **Conflict Resolution** - Can help resolve customer wants with what is technically feasible





Product Manager / Product Owner

End-User Representative

Task Prioritization - You decide which tasks are the most valuable for engineers to take on





Backlog

QUICK FILTERS

[Spectrum](#)

[Papercuts](#)

Board ▾



VERSIONS

EPICS



All issues

Design



CMA-211 Design

Issues

7

Completed

2

Unestimated

0

Estimate

5

Create issue in epic

Linked pages

Tech debt



Warranty



Issues without epics

▼ We will rock this sprint

11 issues

ACTIVE



27/Jun/17 11:02 PM - 04/Jul/17 11:02 PM

Create MVP of the application and start a marketing campaign.



CMA-15

Create research brief for testing the app



2



CMA-4

Database requirements

19



CMA-14

Configure backend infrastructure for automated testing



2



CMA-31

Create banners for Facebook, Linkedin and Twitter

2



CMA-5

Add map view for browsing coffee places



2



CMA-33

Write a blogpost



2



CMA-18

Implement onboarding view

2



CMA-5

Add map view for browsing coffee places



2

...

▼ Backlog

4 issues

Create sprint



CMA-41

Newspaper ads

2



CMA-45

Improve dropdown behaviour



5



CMA-99

Buy a license for Adobe CC

2



CMA-86

Implement designs for help screens



2

+ Create issue



Coffee Mobile App / CMA-15

... X

Create research brief for testing the app



Estimate:

5



▼ Details

Type:

Story

Status:

TO DO (View Workflow)

Priority:

Medium

Resolution:

Unresolved

Affects Version/s:

None

Fix Version/s:

None

Labels:

None



2

▼ People

Assignee:



Friendly Robot

[Assign to me](#)

Reporter:



John Smith

Votes:

0

[Vote for this issue](#)

Watchers:

1

[Stop watching](#)

▼ Dates

Created:

1 week ago

Updated:

1 week ago

▼ Description

Click to add description

Project Manager

Keep the team on track

- **Scrum Master** - Under Agile/Scrum
- **Business Sense** - Represents the development team to the business as a whole



Teams in Space

Classic software project

Scrum: Teams in S...

Board ▾

Roadmap

Backlog

Active sprints

Reports

Issues

Components

Releases

Project pages

Add item

Project settings

Board

Release

...



Quick Filters ▾

TO DO 5

Engage Jupiter Express for
outer solar system travel

SPACE TRAVEL PARTNERS



5

TIS-25



Create 90 day plans for all
departments in the Mars Office

LOCAL MARS OFFICE



9

TIS-12

Engage Saturn's Rings Resort
as a preferred provider

SPACE TRAVEL PARTNERS



3

TIS-17



Enable Speedy SpaceCraft
as the preferred

IN PROGRESS 5

Requesting available flights
is now taking > 5 seconds

SEESPACEEZ PLUS



3

TIS-8



Engage Saturn Shuttle Lines
for group tours

SPACE TRAVEL PARTNERS



4

TIS-15



Establish a catering vendor
to provide meal service

LOCAL MARS OFFICE



4

TIS-15



Engage Saturn Shuttle Lines
for group tours

CODE REVIEW 2

Register with the Mars
Ministry of Revenue

LOCAL MARS OFFICE



3

TIS-11

Draft network plan for Mars
Office

LOCAL MARS OFFICE



3

TIS-15



DONE 8

Homepage footer uses an
inline style-should use a class

LARGE TEAM SUPPORT



TIS-68



Engage JetShuttle
SpaceWays for travel

SPACE TRAVEL PARTNERS



5

TIS-23



Engage Saturn Shuttle Lines
for group tours

SPACE TRAVEL PARTNERS



TIS-15



Establish a catering vendor
to provide meal service

LOCAL MARS OFFICE



Developer Advocate / Evangelist

Represents Developer -focused Companies to the Community



What is exciting in Flexible Server for PostgreSQL on Azure



WITH

Anna Hoffman
Sunil Agarwal



Azure Friday

Govern your data wherever it resides with Azure Purview



Freelance Developer

More Business – Reduced Coding

- **Sales** - Obtaining and keeping clients
- **Management** - Subcontractors/Employees
- **(People Operations)** - Billing/Payroll/etc





Questions

