



WCFS Curriculum 2019

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MCLedger

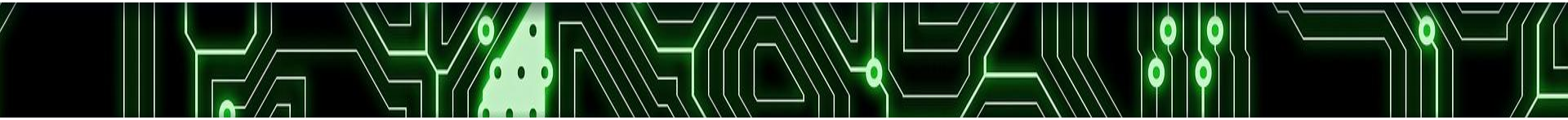
Agenda 2019

In general, morning will cover fundamentals and afternoons will cover programming logic and project work.

Session Number	Date	Session Focus
1	23-Mar	Kick off - IT Fundamentals
2	30-Mar	Agile Methodology
3	6-7 Apr	Hackathon AT&T
4	13- Apr	Internet Basics / Project Work
5	11-May	HTML & CSS / Project Work
6	18-May	Career Day
7	25-May	Javascript / Project Work
8	1-Jun	Data Bases / Project Work
9	15-Jun	Server Side / Project Work
10	22-Jun	APIs, / Project Work
11	29-Jun	Deliver Final Project

Session 1 - Kick Off & IT Fundamentals - Susan Haimet

March 23rd



Kick-Off

9:30 Welcome &
Introduction

10:15 - Class organization

10:45 - Break

11:00 How computers work

11:15 Number Systems

11:45 Hands on Exercise 1

Computing Fundamentals

12:00 Circuits & Logic

12:30 Lunch

13:30 - CPU, Memory, Data

14:00 Hardware & Software

14:30 Mainframes to Web

14:45 Algorithms

Computer Fundamentals p2

15:00 Hands on Exercise 2

15:30 Break

16:00 Algorithms Part 2

16:30 Hands on Exercise 3

17:00 Intro to Programming

17:30 Hands on Exercise 4

Session 2 - Brainstorming, Meetings & Agile Methodology - Klaxoon

March 30th

Intro to Agility

9:30 What is Klaxoon

10:00 - Adapting to Change

10:30 Agile Method, Scrum

10:45 - Break

11:00 Exercise Scrum

11:15 The Scrum Team

Agile Fundamentals

11:30 The Product Owner

11:45 The Dev Team

12:00 The Sprint

12:15 The Daily

12:30 Sprint Review

12:45 Lunch

Agile in Practice

14:00 Hands on Exercise

15:30 Break

16:00 Team Comm Exercise

16:30 Pitch Battle Prep

17:00 Pitch

17:30 AT&T Hackathon Info

Session 3 - AT&T Hackathon - Skillogs

April 6th & 7th

Two day session including technical workshops, project discovery, ideation and design thinking, mentoring and assignment of project tasks.



Session 3 - AT&T Hackathon - Skillogs

Day 1 - April 6th

- 8H30** Accueil & Attribution des badges
- 9H20** Apprendre à mieux se connaître
- 9H35** Présentation générale de l'événement
la mission
les défis
- 10H10** Regroupement des participants en 3 groupes et début de la phase d'idéation

// 11H30 Visite guidée AT&T

- 12H** Pitch de présentation des concepts

Déjeuner
service entre 12H30 et 14H

- 13H30** Moment d'inspiration

- 14H** Reprise et début de la phase prototypage

// 15H30 Visite guidée AT&T

- 14H30** Atelier 1 – Faire un mock-up

16H Atelier 2 - Le Data
Pipeline : quelles étapes vers le choix de l'usage et de la diffusion des données

- 17H** Performance surprise

- 17H30** Présentation de l'avancée des projets

19H30 Keynote de Raphaël Moraglia (Skillogs) – "A sustainable victory in a Hackathon"

Dîner
service entre 20H et 21H30

22h00 Back Home! Fin de la journée 1

Day 2 - April 7th

Petit-déjeuner
service entre 8H30 et 10H

- 9H** Apprendre à se reconnaître
- 9H20** Suite de la phase prototypage
- 10H** Atelier 3 - Choisir un langage informatique
- 11H** Atelier 4 - Choisir un environnement de développement
- 12H** Répétition générale des pitches suivie d'un "pitch des pitches"

Déjeuner
service entre 12H30 et 14H

- 14H** Dernières étapes de prototypage / développement

// 15H30 Visite guidée AT&T

- 16H** Phase de restitution
pitch final de chaque projet délibération du jury et annonce des résultats

17H00 Moment convivial et clôture à 17h30

SKILL  GS

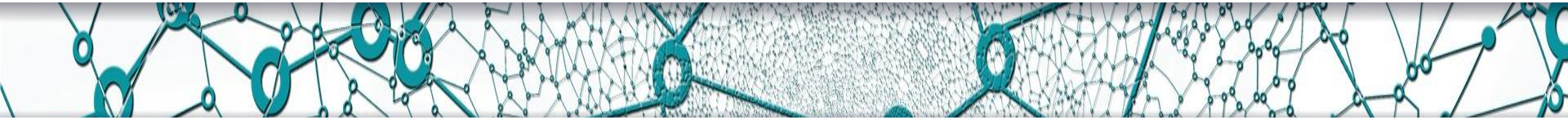


VISITES GUIDÉES

Les visites guidées prévues visent à faire découvrir à

Session 4 - Advanced Agile and Programming Logic Part 1

April 13th



Agile Fundamentals

This session will be provided by an outside consultant and will cover the fundamentals of Agile Methodology for Interactive Application Development

11:00 Break

Agile in Practice

Also provided by an outside consultant set up the Agile Backlog and Define the first sprint or go over what already exists from the Hackathon

12:30 Lunch

Dev Fundamentals & Project work

13:30 Programming Logic 1

Algorithm, Variables, Read & Write, Tests, Programming Logic, Loops, Tables

15:30 Project Stand Up

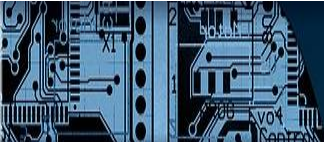
16:00 Break

16:15 Project Team Work

Advance on AT&T project

Session 5 - Internet Fundamentals and Programming Logic Part 2

May 11th



The Internet

9:30 Review of last session

9:40 - Cable, Fiber & Wifi

10:00 - IP Addresses & DNS

10:15 How info travels

10:30 HTTP & HTML

10:45 Hands on Exercise

Internet Fundamentals

11:00 Break

11:15 - Web Architecture

11:30 HTML Intro

11:45 DOM and First Tags

12:00 Create 1st Web Page

12:30 Lunch

Dev Fundamentals & Project work

13:30 Programming Logic 2

Best practices, multidimensional tables,
pre-defined, functions, files, procedures & fxs, ...

15:30 Project Stand Up

16:00 Break

16:15 Project Team Work

Advance on AT&T project



Career Day

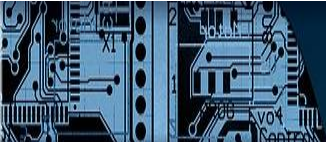
May 18th

Career options in technology including

AT&T, Klaxoon, 3M and others

Session 7 - Intro to HTML & CSS and Responsive Design

May 25th



HTML Basics

9:30 Review of last session

9:45 HTML Basics, Tags, Text

10:30 Hands on Exercise

10:45 HTML Lists & Exercise

11:00 Break

11:15 Intro to CSS

Intro to CSS

11:30 Other HTML Tags

11:45 Hands On Exercise

12:00 CSS Text & Color

12:15 Hands on Exercise

12:30 Lunch

Dev Fundamentals & Project Work

13:30 Web Languages

More HTML, CSS Layouts and Responsive Design

15:30 Project Stand Up

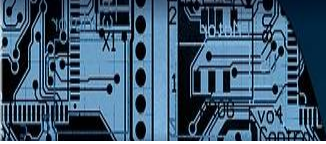
16:00 Break

16:15 Project Team Work

Advance on AT&T project

Session 8 - Interactive Web Development & Javascript

June 1st



Interactive Web Pages

9:30 Review of last session

9:45 Hands on HTML/CSS

10:00 Into to Javascript

10:30 Hands on Exercise

11:00 Break

11:15 Javascript & the DOM

Intro to Javascript

11:30 Hands on Exercise

12:30 Lunch

Dev Fundamentals & Project Work

13:30 Logic & Programming

Javascript development

15:30 Project Stand Up

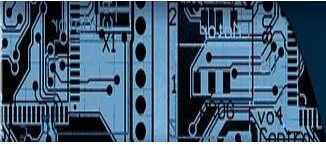
16:00 Break

16:15 Project Team Work

Advance on AT&T project

Session 9 - Data, Databases, Big Data and Cloud

June 15th



Intro to SQL

9:30 Review of last session

9:15 Intro to SQL

9:45 Exercise Create a table

10:15 Querying a Table

10:30 Hands on Exercise

11:00 Break

Intro to NoSQL

11:15 Intro to NoSQL

11:45 Exercise Create a
Collection

12:00 Querying a Collection

12:15 Hands on Exercise

12:30 Lunch

Dev Fundamentals & Project Work

13:30 Data, Databases, Big Data &
Cloud

15:30 Project Stand Up

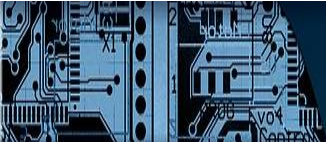
16:00 Break

16:15 Project Team Work

Advance on AT&T project

Session 10 - Web Architecture, Security & APIs

June 22nd



Intro to Web Architecture

9:30 Review of last session

9:45 Intro to Web Architecture

10:00 Web Development

Tools

10:15 Introduction to
Cryptography

11:00 Break

Internet Security Basics

11:15 What is Public Key
Encryption?

12:00 Hands On Exercise

12:30 Lunch

Dev Fundamentals & Project Work

13:30 Web Architecture & Security

15:30 Project Stand Up

16:00 Break

16:15 Project Team Work

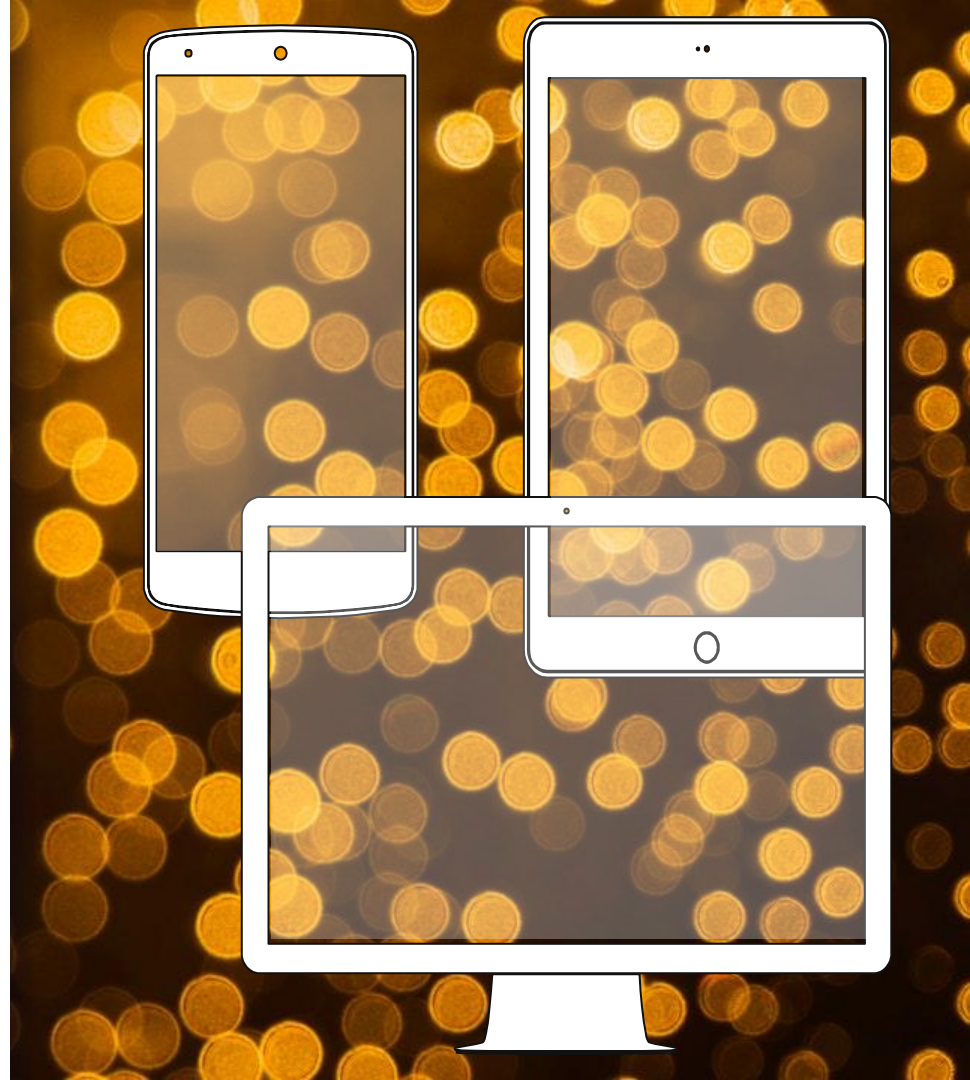
Advance on AT&T project

Session 11 - Deliver Final Project

June 29th

This session is devoted to the
furious Work to finish and deliver
the AT&T

SMART Dynamic Display Project



Congratulations are in order for those who make it here!

July 2 2019 at 18:30
Location to be announced



Graduation

Thanks!

Any questions?

You can find us at:

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