Jacob Miller – GitHub Curriculum

Section 1 – Foundation Review & Strengthening

Objective: Strengthen your base in HTML, CSS, and JavaScript using your earlier repositories to ensure clean structure, accessibility, and deployment readiness.
Repositories: TributePage, SurveyForm, ExampleLandingPage
Milestones:
- Refactor UI/UX for responsiveness and accessibility.
- Ensure semantic HTML and optimized assets.
- Write README improvements documenting lessons learned.
- Deploy final versions using GitHub Pages or Netlify.

Section 2 – Web & Full■Stack Web Applications

Objective: Develop professional full■stack apps using Express.js, Node.js, databases, and modern front■end frameworks.
Repositories: MBM■HandyMan■Services, Tucson■Permit■Assistant, Modern■Cuts■Site
Milestones:
- Build REST APIs for tenant services and maintenance workflows.
- Integrate database (PostgreSQL/MongoDB).
- Implement authentication (JWT, OAuth).
- Launch on Vercel or Render with production settings.

Section 3 – Generative Art & Creative Coding

Objective: Apply your generative art experience to create dynamic visual systems inspired by your style and influences.
Repositories: Sonoran■Force, Day■Zero, Nature■Pulse
Milestones:
- Use p5.js or Three.js for interactive visuals.
- Implement real■time controls and animation loops.
- Optimize for cross■device performance.
- Document the creative process and symbolism in the README.

Section 4 – Real■Estate Systems & Operations

Objective: Build and refine real■estate management platforms integrating leases, maintenance, and payment workflows.
Repositories: Trailer■Park■Sales■Model, Royal■Shelter■Society, MBM■HandyMan■Services, Tucson■Permit■Assistant
Milestones:
- Design DB schema for properties, tenants, leases, payments.
- Create automated PDF notice generator (rent pause, eviction).
- Implement tenant portal and admin dashboard.
- Add analytics and reporting features.

Section 5 – Security & Compliance

Objective: Integrate robust security practices across all repositories, focusing on data protection, encryption, and compliance.
Repositories: Neighborhood■Watch, all production repos
Milestones:
- Implement MFA, RBAC, and encrypted storage for sensitive data.
- Enable GitHub secret scanning and Dependabot alerts.
- Conduct basic threat modeling and document incident response.
- Deploy HTTPS and secure headers.

Section 6 – Blockchain & Ledger Integration

Objective: Extend selected apps with blockchain■based functionality for ownership, transparency, or creative minting.
Repositories: Desert■Ledger, Day■Zero
Milestones:
- Connect front■end with blockchain via Web3.js or Ethers.js.
- Record property or art transactions on■chain.
- Create tokenized assets or NFTs tied to generative art.
- Ensure decentralized hosting and ledger verification.

Section 7 – Integration Capstone Project

Objective: Combine all disciplines into a cohesive, deployable flagship project that reflects your personal brand and professional growth.
Capstone Concept: "Secure Property Platform"
Milestones:
- Tenant portal with payments and maintenance tracking.
- Property dashboard for analytics.

- Blockchain ledger for property transactions.
- Full security implementation and audit documentation.
- Publish and promote through your social media network.

Section 8 – Portfolio & Professional Showcase

Objective: Package and present your achievements for employers, collaborators, and followers.
Repositories: Portfolio■Site, THE■BLOKK
Milestones:
- Unify branding (Montserrat font, signature color scheme).
- Write case studies for top 3 projects.
- Add video demos or GIF previews to READMEs.
- Create LinkedIn and social media posts documenting milestones.

Curriculum Completion Goal

Estimated duration: 16–20 weeks (flexible).

Completion of this curriculum results in:

- Full■stack + blockchain developer skills
- Real■estate systems engineering capability
- Security compliance understanding
- Generative art mastery tied to web interactivity
- A cohesive portfolio showcasing your brand and versatility